# Verifying that an IBM MQ Listener runmqlsr is running in Windows and Linux

https://www.ibm.com/support/pages/node/7028389

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+++ Question +++

You want to know if the MQ Listener process "runmqlsr" is running for an IBM MQ queue manager in Windows and Linux in a local host. That is, you are logged in in host-1 and you want to know if there is an MQ listener running in host-1.

However, for a related scenario, if you are in host-2 and you want to know if there is an MQ listener in another host (host-1), then the following technote can be helpful:
> https://www.ibm.com/support/pages/node/482611
> Using ssh to test connectivity between an IBM MQ Client in one host and
> a Queue Manager in another host

+ Tags: netstat, Task Manager

+++ Answer +++

**++ General**

In this example, the MQ listener object "LISTENER" is running in port "1414".
Use "runmqsc" to display the Listeners and their Status.

$ runmqsc QMGR1

display listener(*) all
AMQ8630I: Display listener information details.
   LISTENER(SYSTEM.DEFAULT.LISTENER.TCP)   CONTROL(MANUAL)
   TRPTYPE(TCP)                 PORT(0)
AMQ8630I: Display listener information details.
   LISTENER(LISTENER)       CONTROL(QMGR)
   TRPTYPE(TCP)                 PORT(1414)

display lsstatus(*) port
AMQ8631I: Display listener status details.
   LISTENER(LISTENER)           STATUS(RUNNING)
   PID(43735)                 PORT(1414)

## ++ Linux

In this example, there are 2 queue managers, each one with its own Listener port.

When the MQ queue manager is running, the listener runs under the process name:
   runmqlsr

### + Using ps -ef

Thus you need to query the running processes, and grep for: runmqlsr

```
$ ps -ef | grep runmqlsr
mqm      15025  14889  0 Aug16 ?      00:00:14 /opt/mqm/bin/runmqlsr -r -m QM93LNX -t TCP -p 1415
mqm      43735  43111  0 10:41 ?      00:00:00 /opt/mqm/bin/runmqlsr -r -m QM1 -t TCP -p 1414
```

You can also use the utility "netstat" as follows, to see if the port used by the Listener (such as 1414) is active and in "LISTEN" mode.

### + Using netstat

The Unix command "netstat" can be used with the following options:
-a    show all
-n    show the number that is mentioned in the file /etc/services
      That is, do not try to replace it with the name of the service
-p    show process id and process name

```
mqm@riggioni1.fyre.ibm.com: /home/mqm
$ netstat -apn | grep 1414
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
tcp6      0      0 :::1414              :::*                  LISTEN      43735/runmqlsr
```
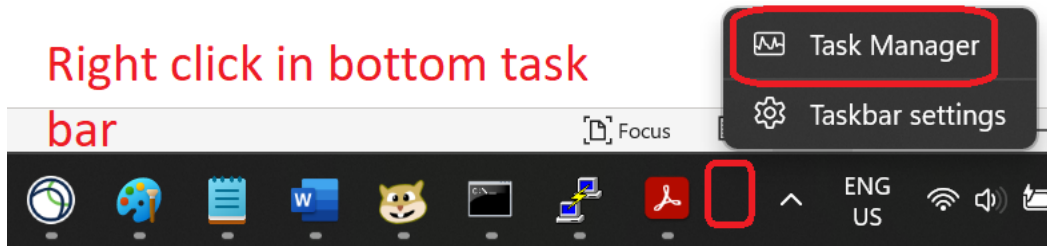
**++ Windows**
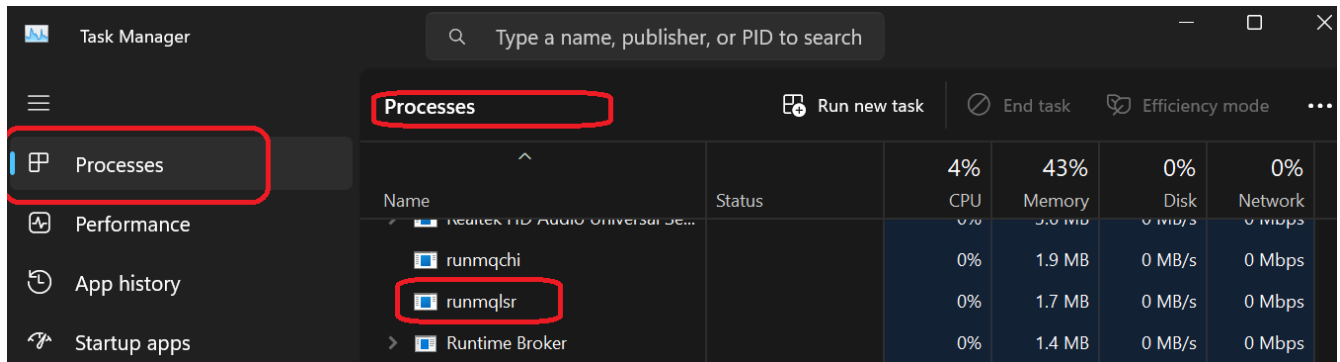
+ Using Task Manager

You can use the Task Manager as follows.
You will need to add the extra column for "Command line" in order to see the details.
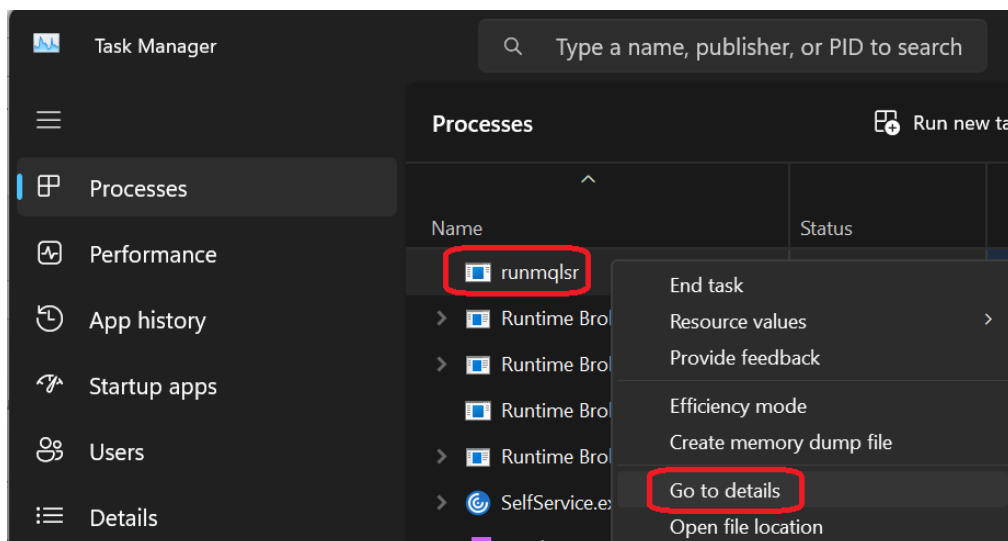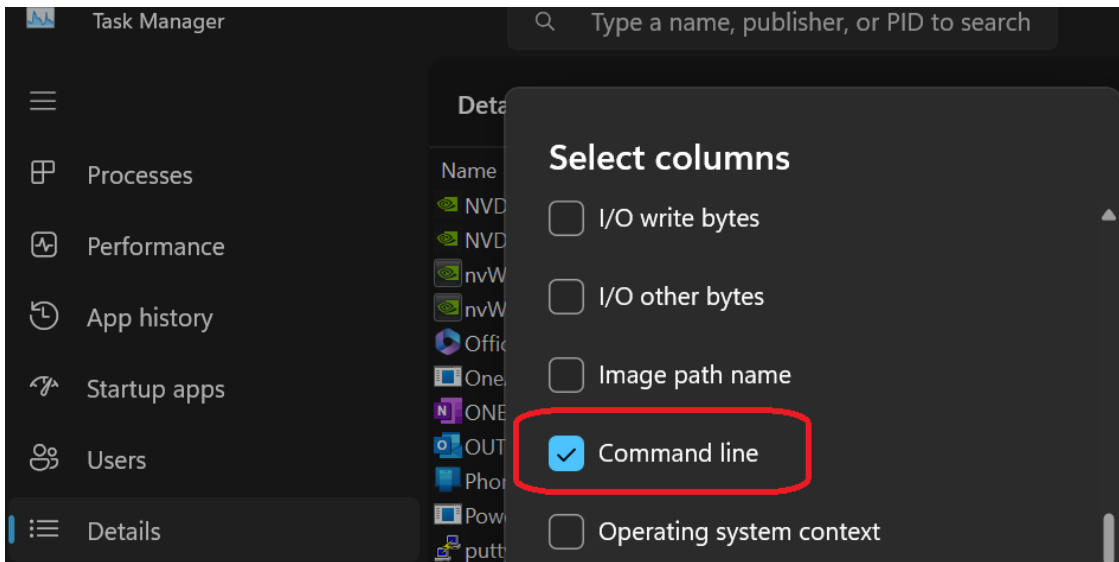
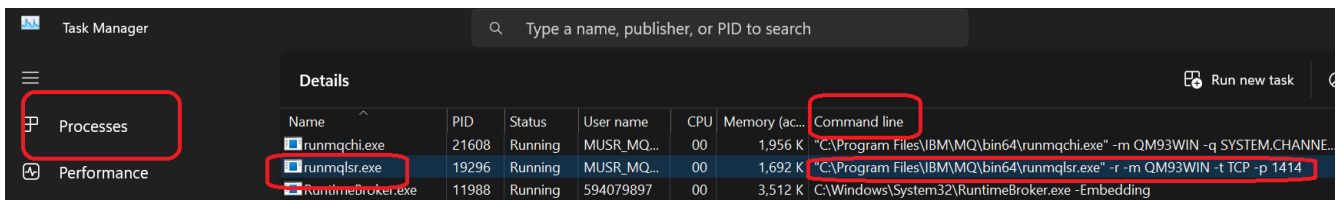Launch Task Manager:



Identify Process: runmqlsr



Right click the Process and click "Goto Process Details"

Right click on any column and select "Show Columns" and then check "Command Line" option > Click OK.



Select the desired process, such as runmqlsr.exe and see the text in the column "Command line":



In this case the value under "Command line" is:

"C:\Program Files\IBM\MQ\bin64\runmqlsr.exe" -r -m QM93WIN -t TCP -p 1414

+ Using netstat

```
C:\> netstat -an | findstr 1414
  TCP    0.0.0.0:1414          0.0.0.0:0              LISTENING
  TCP    [::]:1414             [::]:0                 LISTENING
```

+++ end +++