MQWhat Operation and Installation Manual
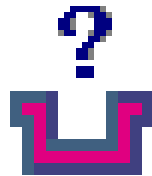
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1 Introduction

1.1 Overview

MQWhat is a great tool for documenting which MQ components are installed and active on a particular server. Since, MQ component information is contained in various files and / or outputted by MQ programs, MQWhat is designed to collect and summarize the MQ information and present the information to the user's screen in a concise manner.

On Unix / Linux, MQWhat is supplied as a Unix Shell script and on Windows, MQWhat is supplied as an executable.

2   Installing MQWhat

This section describes how to install Capitalwares MQWhat.

2.1   Windows Installation

To install MQWhat on Windows, do the following instructions:

- Run the install program called: **mqwhat-setup.exe**
- The installer follows the standard Windows install procedures and provides default values for the user.

2.2   Unix and Linux Installation

To install MQWhat on Unix or Linux, do the following:

1. ftp or copy the selected mqwhat.tar.zip file to the target platform
2. Unzip the mqwhat.tar.zip to an appropriate directory with the following command:

   `unzip mqwhat.tar.zip`

3. Change directory to *Capitalware/MQWhat/*
4. Next, do the following command:

   `chmod +x *.sh`

3 Starting MQWhat

This section describes the various ways that the MQWhat can be started. Currently, MQWhat via WebSphere MQ's triggering system, manually or by a scheduling package.

3.1 Windows

3.1.1 Manual Execution

MQWhat can be manually started from a Command Prompt. First change to the MQWhat directory (i.e. C:\Capitalware\MQWhat) and then type *MQWhat.exe* and then press *Enter*.

3.1.2 Scheduled Execution

MQWhat can be setup to be run under a scheduling package. (For example, Windows 2003 **Scheduled Task** service.) You may prefer to have MQWhat executed daily. Therefore, use the scheduling package's tools to setup the necessary parameters for daily execution.

3.1.3 Command-line parameters

None.

3.1.4 Sample Output

```
MQWhat v1.1.0 by Capitalware Inc.
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+-------------------------------------------------------+
| Currently Installed Version Information               |
+-------------------------------------------------------+
ProductType      = Server
VRMF             = 6.0.2.7
MQServerVersion = 6
MQServerRelease = 0
GSKitPackaged    = GSK7
FilePath         = D:\Program Files\IBM\WebSphere MQ
Operating System= Windows XP Service Pack 3 (Build 2600)
+-------------------------------------------------------+
| Currently Installed Components                        |
+-------------------------------------------------------+
Local Clients       = Installed
JavaMsg             = Installed
Server              = Installed
Development Toolkit = Installed
Explorer            = Installed
+-------------------------------------------------------+
| Currently Applied Maintenance                         |
+-------------------------------------------------------+
Shipped  = 0.0
Maint_2.7
+-------------------------------------------------------+
| Queue Managers                                        |
+-------------------------------------------------------+
Default  QMgr Name        Status
-------  ---------        ------
   MQWT1        Running
   MQWT2        Ended
+-------------------------------------------------------+
```

```
| Individual Queue Manager Information                        |
+------------------------------------------------------------+
Queue Manager Name: MQWT1
  Default = No
  Listeners:
    Name = LISTENER.TCP
    Status = RUNNING
    IP Address =
    Port = 1415
    Type = TCP
    Control = QMGR
    --------------------
    Name = SYSTEM.DEFAULT.LISTENER.LU62
    Status =
    Type = LU62
    Control = MANUAL
    --------------------
    Name = SYSTEM.DEFAULT.LISTENER.NETBIOS
    Status =
    Type = NETBIOS
    Control = MANUAL
    --------------------
    Name = SYSTEM.DEFAULT.LISTENER.SPX
    Status =
    Type = SPX
    Control = MANUAL
    --------------------
    Name = SYSTEM.DEFAULT.LISTENER.TCP
    Status =
    IP Address =
    Port = 0
    Type = TCP
    Control = MANUAL
    --------------------
  Logging:
    LogType = CIRCULAR
    LogPrimaryFiles = 10
    LogSecondaryFiles = 15
    LogPath = D:\Program Files\IBM\WebSphere MQ\log\MQWT1\
    LogBufferPages = 0
    LogFilePages = 1024
    --------------------
  Services:
    Name = SYSTEM.BROKER
    Status =
    Control = MANUAL
    Service Type = SERVER
    --------------------
    Name = SYSTEM.DEFAULT.SERVICE
    Status =
    Control = MANUAL
    Service Type = COMMAND
    --------------------
    Name = TESTsvc
    Status =
    Control = MANUAL
    Service Type = SERVER
    --------------------
    Name = XYZ
    Status =
    Control = MANUAL
    Service Type = COMMAND
    --------------------
Queue Manager Name: MQWT2
  Default = No
  Listeners:
```

```
  Logging:
    LogType = CIRCULAR
    LogPrimaryFiles = 5
    LogSecondaryFiles = 5
    LogPath = D:\Program Files\IBM\WebSphere MQ\log\MQWT2\
    LogBufferPages = 0
    LogFilePages = 256
    --------------------
Services:
--------------------
```

3.2 Unix / Linux

3.2.1 Manual Execution

MQWhat can be manually started from a Shell Prompt. First change to the MQWhat directory (i.e. Capitalware/MQWhat) and then type *MQWhat.sh* and then press *Enter*.

3.2.2 Scheduled Execution

MQWhat can be setup to be run under a scheduling package. (i.e. cron) You may prefer to have MQWhat executed daily. Therefore, use the scheduling package's tools to setup the necessary parameters for daily execution.

3.2.3 Command-line parameters

None.

3.2.4 Sample Output

```
MQWhat v1.1.0 by Capitalware Inc.
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+--------------------------------------------------------+
| Currently Installed Version Information                 |
+--------------------------------------------------------+
ProductType       = Server
VRMF              = 6.0.0.0
MQServerVersion   = 6
MQServerRelease   = 0
Operating System = SunOS u10-4 5.9 Generic_112233-10 sun4u sparc SUNW,Ultra-
5_10
+--------------------------------------------------------+
| Currently Installed Components                         |
+--------------------------------------------------------+
Server             = Installed
Local Clients      = Installed
Development Toolkit = Installed
Java               = Installed
Samples            = Installed
GSK 32-bit         = Not Installed
GSK 64-bit         = Installed
+--------------------------------------------------------+
| Currently Applied Maintenance                          |
+--------------------------------------------------------+
Maintenance = None
+--------------------------------------------------------+
| State of Queue Managers                                |
+--------------------------------------------------------+
Default QMgr Name                         Status
------- ---------                         ------
        MQS1                              Running
+--------------------------------------------------------+
| Individual Queue Manager Information                   |
+--------------------------------------------------------+
Queue Manager Name: MQS1
  Default=no
  Listeners:
```

```
      Name=SYSTEM.DEFAULT.LISTENER.TCP
      Status=
      IP Address=
      Port=0
      Type=TCP
      Control=MANUAL
      --------------------
  Logging:
    LogType=CIRCULAR
    LogPrimaryFiles=3
    LogSecondaryFiles=2
    LogPath=/var/mqm/log/MQS1/
    LogBufferPages=0
    LogFilePages=1024
    --------------------
  Services:
    Name=SYSTEM.BROKER
    Status=
    Control=MANUAL
    Service Type=SERVER
    --------------------
    Name=SYSTEM.DEFAULT.SERVICE
    Status=
    Control=MANUAL
    Service Type=COMMAND
    --------------------
```

4   Appendix A – Technical Support

The support for MQWhat can be found at the following location (requires a support contract):

Online Help Desk Ticketing System at
www.capitalware.com/phpst/

By email at:
support@capitalware.com

By regular mail at:

> Capitalware Inc.
> Attn: MQWhat Support
> Unit 11, 1673 Richmond Street, PMB524
> London, Ontario N6G2N3
> Canada

5 Appendix B – Summary of Changes

- ➢ MQWhat v1.2.0
  - o Fixed an issue (all platforms) with periods and/or forward-slashes in the queue manager name.

- ➢ MQWhat v1.1.0
  - o Created a Unix shell script to retrieve the values for Unix and/or Linux
  - o Added support for retrieving Listeners information for a particular queue manager
  - o Added support for retrieving Services information for a particular queue manager
  - o Added support for retrieving Logging information for a particular queue manager

- ➢ MQWhat v1.0.0
  - o Initial release.

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