IBM

IBM Tivoli Monitoring V6.2

Configuration and administration of the monitoring agent for i5/OS

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IBM Tivoli® Monitoring V6.2, Configuration and administration of the monitoring agent for i5/OS®. In this module, you learn about the steps involved in configuration and administration of the i5/OS monitoring agent.

Assumptions

Before you proceed, the module designer assumes that you have these skills and environment:
- General system administration of the i5/OS or IBM i platform
- Knowledge of Tivoli Monitoring
- A Tivoli Monitoring environment that includes a Tivoli Enterprise Monitoring Server, a Tivoli Enterprise Portal Server, and a Tivoli Enterprise Portal client

The module designer assumes that you have general system administrations skills on the i5/OS or IBM i platform and have basic knowledge of Tivoli Monitoring. The module designer also assumes that you have a functioning Tivoli Monitoring environment that includes these items:

- Tivoli Enterprise Monitoring Server

- Tivoli Enterprise Portal Server

- Tivoli Enterprise Portal client

Objectives

When you complete this module, you can perform these tasks:

- Check the version of the monitoring agent for i5/OS
- Configure the monitoring agent for i5/OS
- Start the monitoring agent for i5/OS
- Stop the monitoring agent for i5/OS
- Verify the status of the agent's main job

After completing this module, you can perform these tasks:

- Check the version of the Monitoring Agent for i5/OS
- Configure the Monitoring Agent for i5/OS
- Start the Monitoring Agent for i5/OS
- Stop the Monitoring Agent for i5/OS
- Verify the status of the agent's main job

Determining the version of the agent installed

- To determine the level of the agent that is installed, from i5/OS command line, run the command:
  DSPPFM QAUTOMON/KA4LEVEL
- The **PRODUCT VERSION** line shows the VVRRMMFF level of the agent
- The **cinfo** and **kincinfo** commands do not function on the i5/OS platform

```
                    Display Physical File Member
File . . . . . . :  KA4LEVEL          Library . . . . :  QAUTOMON
Member . . . . . :  KA4LEVEL          Record . . . . . :  1
Control . . . . .  _____           Column . . . . . :  1
Find . . . . . . .  _____
*...+....1....+....2....+....3....+....4....+....5....+....6....+....7....+.
000100000000PRODUCT ID            : 5724C04
000200000000PRODUCT VERSION       : 06.22.04.00
000300000000PRODUCT DESCRIPTION   : IBM Tivoli Monitoring: i5/OS Agent
000400000000KA4     DRIVER        : 03201
000500000000TEMA    SDK           : 0258
000600000000PACKAGE DRIVER        : D0320A
000700000000PACKAGE LEVEL         : 201011161125
000800000000PACKAGE SIZE          : 42000 KiloBytes approximately
000900000000COMMENTS              : om400_622fp4 A4D0320A5P op20258a5p V6R2M3
001000000000BUILD DATE            : Tuesday, November 16, 2010
                    ****** END OF DATA ******
```

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To determine the version or the level of the agent installed, from the i5/OS command line, run the command **DSPPFM QAUTOMON/KA4LEVEL**. The contents of the **KA4LEVEL** file in the **QAUTOMON** library displays on the screen.

The **PRODUCT VERSION** line shows the VVRRMMFF version of the agent.

Note that the Tivoli Monitoring commands **cinfo** and **kincinfo** do not function on the i5/OS platform.

Configuring the agent (1 of 2)

- On the i5/OS command line, run the command **GO OMA**
- Enter **4** to configure the agent on command line

```
OMA                    Tivoli Monitoring: i5/OS Agent
                                                   System:   CROC
Select one of the following:

     1. Display   Tivoli Monitoring: i5/OS Agent Log
   > 2. Start     Tivoli Monitoring: i5/OS Agent
     3. End       Tivoli Monitoring: i5/OS Agent

     4. Configure Tivoli Monitoring: i5/OS Agent
```

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To configure agent, from the i5/OS command line, enter **GO OMA** and press **Enter**.

Enter **4** to configure the agent and press **Enter**. The Config i5/OS Monitoring Agent (CFGOMA) screen displays.

Configuring the agent (2 of 2)

• The Config i5/OS Monitoring Agent (CFGOMA) screen displays

```
                Config i5/OS Monitoring Agent (CFGOMA)

Type choices, press Enter.

TEMS TCP/IP address . . . . . .    *NONE
TEMS IP.PIPE address . . . . . .   '111.222.333.444'
TEMS IP.SPIPE Address . . . . .    *NONE
Secondary TEMS IP address . . .    *NONE
Secondary TEMS IP.PIPE address     *NONE
Partition name . . . . . . . . .   *SAME
Firewall in use . . . . . . . .    *NO          *YES, *NO
TEMS TCP/IP port address . . . .   1918         Address, *SAME
TEMS IP Pipe port address . . .    1918         Address, *SAME
TEMS IP.SPIPE Port Number . . .    3660         Address, *SAME
Add TCP/IP Server . . . . . . .    *NO          *YES, *NO
Action user profile . . . . . .    QAUTOMON     QAUTOMON, NAME ,*SAME
```

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Use this screen to set the required configuration parameters for the agent to connect to the primary or secondary Tivoli Enterprise Monitoring Server.

On this screen, you set the values for the primary and secondary monitoring server host name or IP address and the port number.

You also set the values for TCP/IP protocols like IP, IP.PIPE, and IP.SPIPE with this screen.

If a firewall exists between the monitoring server system and the agent i5/OS system, you configure it on this screen.

You set the user profile to run the take action commands on this screen.

Starting the agent

- From the i5/OS command line, run **GO OMA**
- If there is the symbol **>** before **2. Start Tivoli Monitoring: i5/OS Agent,** then the agent is not started
- Enter **2** at the command line and press Enter to start the agent
- The **QAUTOMON/STROMA** command can also be used to start the agent

```
OMA                     Tivoli Monitoring: i5/OS Agent
                                                    System:    CROC
Select one of the following:

    1. Display    Tivoli Monitoring: i5/OS Agent Log
  > 2. Start      Tivoli Monitoring: i5/OS Agent
    3. End        Tivoli Monitoring: i5/OS Agent

    4. Configure Tivoli Monitoring: i5/OS Agent
```

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To start the agent, from the i5/OS command line, run the command **GO OMA**.

If the symbol **>** precedes the item **2 Start Tivoli Monitoring: i5/OS Agent**, as shown in the image, then the agent is not started.

On the command line, enter **2** and press **Enter** to start the agent.

After agent is started, the symbol **>** is not displayed before item **2 Start Tivoli Monitoring: i5/OS Agent**.

You can also use the command line command **QAUTOMON/STROMA** to start the agent.

Stopping the agent

- From the i5/OS command line, run the **GO OMA** command
- Enter **3** at the command line and press Enter to stop the agent
- End the agent in a controlled mode with a 90-seconds delay
- The **QAUTOMON/ENDOMA** command can also be used to stop the agent

```
                    End i5/OS Monitoring Agent (ENDOMA)

Type choices, press Enter.


How to end . . . . . . . . . .     *CNTRLD      *IMMED, *CNTRLD
Delay time, if *CNTRLD . . . . .   90           Seconds
Allow abnormal end if needed . .   *YES         *NO, *YES
```

To stop the agent from the i5/OS command line, run the command **GO OMA**.

Enter **3** on the command line and press Enter.

If the agent ends in controlled mode, that ensures that the agent ends jobs that are running and performs the cleanup of temporary objects created during operations.

The normal settings for **How to end** the agent, is in a controlled mode with a 90 seconds delay as shown in the image.

You can also use the command line command **QAUTOMON/ENDOMA** to stop the agent.

Status of the agent

- From the i5/OS command line, run the command **WRKACTJOB SBS(QAUTOMON)**
- Find the **CT_AGENT** job under the **QAUTOMON** subsystem
- **CNDW** in the Status column indicates the normal execution of the agent
- **THDW** indicates that some of the threads of the agent are in a wait state
- **MTXW** is displayed when the agent job goes into a dead lock state. This state is an abnormal condition

```
                         Work with Active Jobs                       CROC
                                              06/27/11  07:55:44
CPU %:      .3      Elapsed time:   00:35:21    Active jobs:   141

Type options, press Enter.
  2=Change   3=Hold   4=End   5=Work with   6=Release   7=Display message
  8=Work with spooled files   13=Disconnect ...

Opt  Subsystem/Job  User       Type  CPU %  Function       Status
     QAUTOMON       QSYS       SBS     .0                  DEQW
     CT_AGENT       QAUTOMON   BCI     .0    PGM-CT_AGENT   CNDW
     QBASE          QSYS       SBS     .0                  DEQW
     QPADEV0002     QSECOFR    INT     .0    CMD-WRKACTJOB  RUN
     QSYSSCD        QPGMR      BCH     .0    PGM-QEZSCNEP   EVTW
```

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CT_AGENT is the main job of the agent. To determine whether agent is running or not, from i5/OS command line, run the command **WRKACTJOB SBS(QAUTOMON)**.

Search for the **CT_AGENT** job under the **QAUTOMON** subsystem.

If the agent is running normally, the status displayed is **CNDW**.

If the status displayed is **THDW**, then some of the threads of the agent are waiting for some operation to be completed.

The status **MTXW** displays when the agent job goes into a *dead lock state*, an abnormal condition.

Summary

Now that you have completed this module, you can perform these tasks:

- Check the version of the Monitoring Agent for i5/OS
- Configure the Monitoring Agent for i5/OS
- Start the Monitoring Agent for i5/OS
- Stop the Monitoring Agent for i5/OS
- Verify the status of the agent's main job

Now that you have completed this module, you can perform these tasks:

- Check the version of the i5/OS monitoring agent
- Configure the i5/OS monitoring agent
- Start the i5/OS monitoring agent
- Stop the i5/OS monitoring agent
- Verify the status of the agent's main job

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