

IBM Tivoli Composite Application Manager for Application Diagnostics 7.1

Enabling historical collection for IBM Tivoli Composite
Application Manager data

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This module shows how to enable historical collection of IBM Tivoli® Composite Application Manager data in IBM Tivoli Composite Application Manager (ITCAM) for Application Diagnostics version 7.1.

Assumptions

To achieve the goal of this education training module, you must as a prerequisite possess these skills:

- Be familiar with ITCAM for Application Diagnostics
- Be familiar with the Tivoli Enterprise Portal
- Have a general understanding of historical data collection

To achieve the goal of this education, you must be familiar with ITCAM for Application Diagnostics. You must also be familiar with the Tivoli Enterprise Portal and have a general understanding of historical data collection.

Objectives

When you finish this training module, you can perform these tasks:

- Determine whether historical collection is enabled for an ITCAM workspace
- Enable historical collection with the provided kynHistoryConfigure script
- Manually enable a new historical collection setting for an ITCAM attribute

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Why enable historical collection?

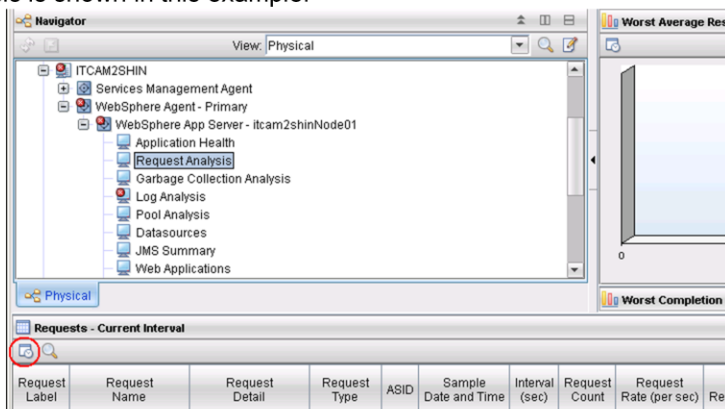
Reasons to enable historical collection:

- View IBM Tivoli Composite Application Manager data that is collected over time
- IBM Tivoli Monitoring Data Warehouse archiving:
 - Allows trend analysis
 - Allows reporting over longer time periods

Historical collection is required to allow the user to see collected ITCAM data over time. Many default ITCAM workspaces display data trends over time so it is necessary to store the data to populate these views. The collected data can then also be archived to the IBM Tivoli Monitoring Data Warehouse to allow for trend analysis and reporting over a longer time.

How to check whether historical collection is enabled (1 of 2)

- In the Tivoli Enterprise Portal, go to the ITCAM workspace and click the subnode entry
- Request Analysis is shown in this example:



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Go to the IBM Tivoli Monitoring Tivoli Enterprise Portal. On this slide, the ITCAM workspace **Request Analysis** subnode is selected. The timestamp icon is visible in the lower left corner. It is encircled in red. Historical Collection is enabled when the timestamp icon is visible.

How to check whether historical collection is enabled (2 of 2)

The time span icon (see red box) shows whether Historical Collection is enabled or not enabled



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On this slide, you see how to determine whether historical collection is enabled. Observe the time span icon that is visible in the image on the left. If the time span icon is visible, then historical collection is enabled.

Enabling historical collection with the kynHistoryConfigure script

If you run the kynHistoryConfigure script on the Tivoli Enterprise Portal Server, historical collection is automatically enabled.

Linux® or UNIX®:

- To find the script, run the following command:
`cd <ITM_HOME>/ARCH_CODE/bin/`
 Example: `/opt/IBM/ITM/li6263/bin`
- To run the script, enter the following command:
`./kynHistoryConfigure.sh <username> <password> <TEMS_name>`
 Example: `./kynHistoryConfigure.sh root mypassword MYTEMSName`

Windows®:

- To find the script, run the following command:
`cd <ITM_HOME>\bin`
 Example: `c:\IBM\ITM\bin`
- To run the script, enter the following command:
`kynHistoryConfigure.bat <username> <password> <TEMS_name>`
 Example: `kynHistoryConfigure.bat sysadmin mypassword MYTEMSName`

Reference:

<Username>: A Tivoli Enterprise Portal Server username with administrative privileges, for example, sysadmin
<TEMS_name>: The name of Tivoli Enterprise Monitoring Server as configured on Tivoli Enterprise Portal Server

To enable historical collection, use the product-provided kynHistoryConfigure script that is found on the Tivoli Enterprise Portal Server. Running this script automatically creates and enables historical collection for the most commonly used ITCAM attribute groups.

You can run the script on either Linux or UNIX, or Windows:

- For UNIX or Linux, change directory to the IBM Tivoli Monitoring Home directory *forward slash* "architecture code" *slash* bin. For example, *forward slash* "OPT" *forward slash* "IBM" *forward slash* "ITM" *forward slash* "li6263" *forward slash* bin. In this directory, run the "kynHistoryConfigure.sh" script with the following arguments: dot *forward slash* "kynHistoryConfigure.sh" space "username" space "password" space "Tivoli Enterprise Monitoring Server name".

- For Windows, change directory to the ITM Home directory *backward slash* bin. For example, *c colon backward slash* "IBM" *backward slash* "ITM" *backward slash* bin. In this directory, run the "kynHistoryConfigure.bat" script with the following arguments: "kynHistoryConfigure.bat" space "username" space "password" space "Tivoli Enterprise Monitoring Server name".

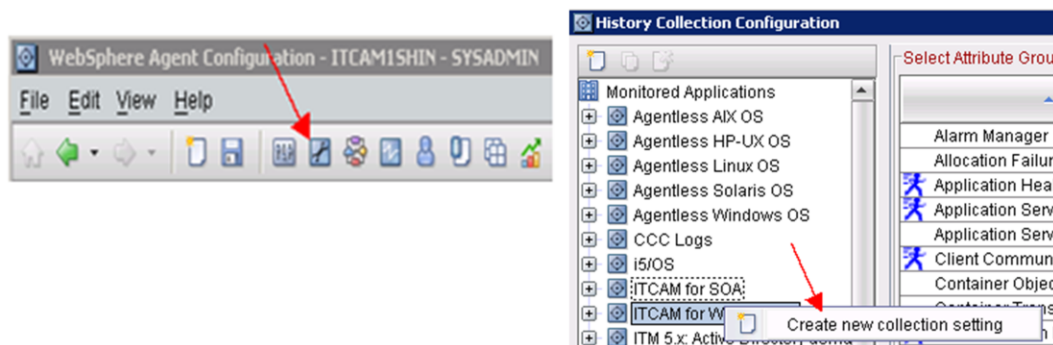
In both cases, the username is the Tivoli Enterprise Portal Server user that has administrative privileges, and the Tivoli Enterprise Monitoring Server name is the name of the Tivoli Enterprise Monitoring Server server as configured on the Tivoli Enterprise Portal Server.

How to enable historical collection manually (1 of 4)

Some **attributes** are not automatically turned on by the kynHistoryConfigure script. These screens show how to manually enable historical action for the Messaging engines attribute group.

Perform these actions:

1. In the Tivoli Enterprise Portal view, click the icon that is shown on the left
2. Right-click **ITCAM for WebSphere** and click **Create new collection setting**



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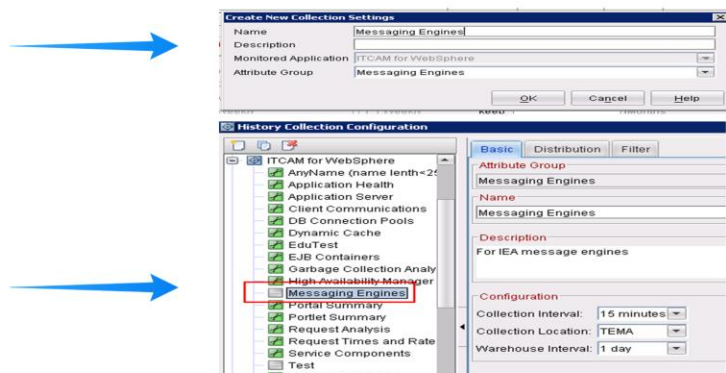
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It is also possible to manually enable historical collection. This action might be required as some attributes are not automatically turned on by the kynHistoryConfigure script.

In this example, you see how to manually enable historical collection for the messaging engines attribute group. To enable collection from the IBM Tivoli Monitoring Tivoli Enterprise Portal menu, click the **Historical Collection** icon that is shown on the left in this slide. This icon opens the history collection configuration for all monitored applications. Right-click the **ITCAM for WebSphere** subnode and click **Create new collection setting**.

How to enable historical collection manually (2 of 4)

3. Perform these actions in the **create new collection settings** window:
 - Enter the **Name** and **Description** (top)
 - Choose **Messaging Engines** from the Attribute Group drop-down list
4. The attribute group called "**Messaging Engines**" is created. Set the **Collection Interval** and **Collection Location**. Optionally, if you have a data warehouse configured you can also set the **Warehouse Interval**



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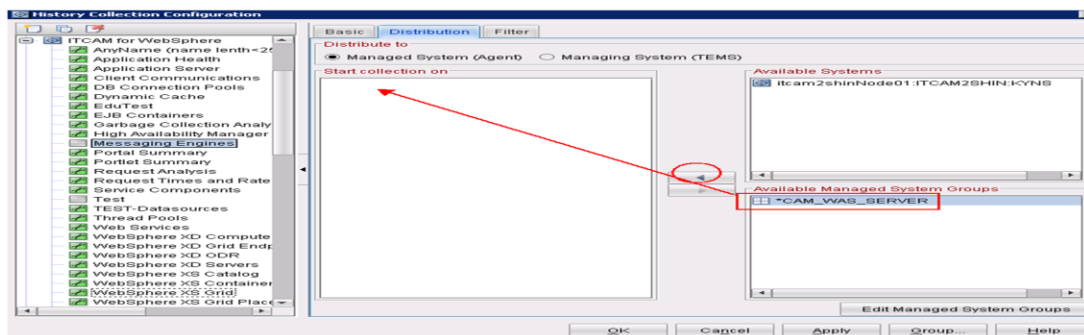
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In the **Create New Collection Settings** window, enter a name and an optional description, and then select an attribute group from the drop-down list. Select the attribute group named **Messaging Engines**. Enter the name and the optional description. For ease of identification, use a name that reflects the attribute group. Click **OK** to complete the group creation. Complete the configuration section on the resulting screen. Observe the History Collection Configuration screen on this slide. The Collection Interval is in the lower right corner of the screen in the Configuration section. The Collection Interval is the time between data collections for that attribute collected by the Tivoli Enterprise Monitoring Agent. The default interval is fifteen minutes, but it can be reduced to five minutes. Select a collection location. In this slide, the Collection Location is set to the Tivoli Enterprise Monitoring Agent. The collection location can be either on the TEMA agent itself or on the IBM Tivoli Monitoring Tivoli Enterprise Monitoring Server it is connected to. Optionally, if data warehousing is enabled, you can select the warehousing interval. By default the warehousing interval is set to once a day.

How to enable historical collection manually (3 of 4)

5. Select the **Distribution** tab at the top of the window on the right pane
6. Select the ***CAM_WAS_SERVER** group under the **Available Managed System Groups** pane and click the left arrow to move the group to the left pane to enable collection on all ITCAM TEMA agents that are connected to the Tivoli Enterprise Monitoring Server
7. Optionally, you can select individual managed systems from the **Available Systems** pane on the upper right and move them to the left pane to start collection
8. Press **OK** to finish



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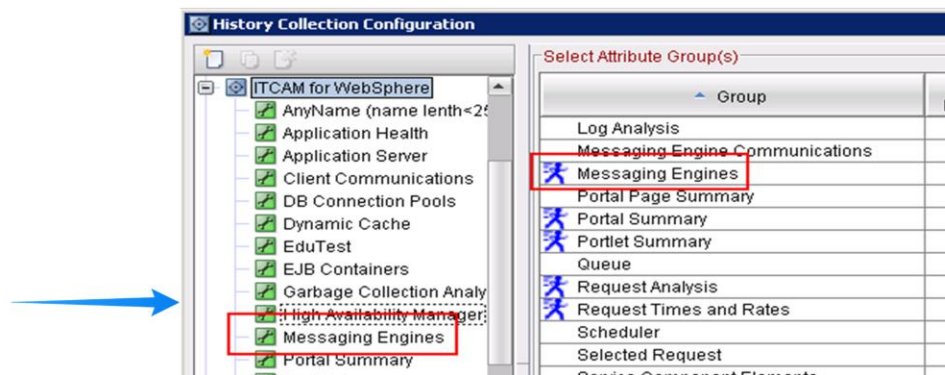
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The next step is to select the managed system groups or individual managed systems that you want the historical collection for that attribute to take place on. Select the **Distribution** tab at the top of the window in the right pane and select whether collection takes place on the agent or the Tivoli Enterprise Monitoring Server. To reduce network traffic, select the **Managed System (Agent)** to enable collection to take place on the TEMA agents. To enable collection for all of the ITCAM TEMA agents, select the ***CAM_WAS_SERVER** group under **Available Managed System Groups**. Click the left-facing arrow circled on this slide to move the group to the left pane. Finally, click the **OK** button to apply the changes.

How to enable historical collection manually (4 of 4)

9. Historical collection for the Message Engines attribute group is now enabled.

- The Messaging Engines icon now appears green
- In the pane on the right side a running figure icon is present for Messaging Engines. The running figure indicates that collection is active

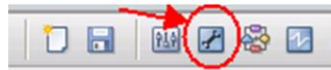


In the History Collection Configuration window, you now see the Messaging Engines attribute group with a green icon. The green color indicates that collection is enabled and is active.

In the right pane, you see the Messaging Engines entry with a blue running figure icon to indicate that collection is active.

Confirm that historical collection is enabled for ITCAM attributes

1. Click the icon (marked with arrow)



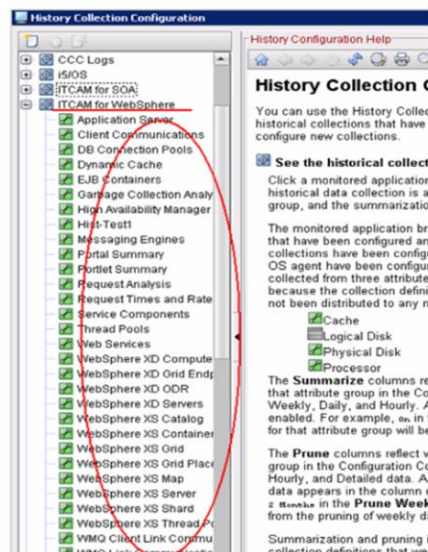
2. Under **ITCAM for WebSphere** all attribute groups are listed

If a particular entry does not exist in the list, the historical collection for this attribute group is not yet created

If an entry is **not available**, Historical Collection is **NOT enabled**.

If an entry is **green**, Historical Collection for the attribute is **enabled**

3. When Historical Collection is enabled with the kynHistoryConfigure script, only the default attribute groups (circled in red) are created.
4. You must wait the collection interval time before you can see the data in ITCAM workspaces.



To confirm which ITCAM attribute groups are created and enabled, open the Historical Collection Configuration window from Tivoli Enterprise Portal and view what is configured. Select the spanner icon with the blue background from the Tivoli Enterprise Portal toolbar. Expand the ITCAM for WebSphere® subnode by clicking the plus symbol to the left of the entry.

When you want to check which attributes are enabled, follow these three steps:

1. Click the **Historical Collection** configuration icon.
2. Expand the **ITCAM for WebSphere** sub node.
3. You see the data in ITCAM workspace. You must wait for the Collection Interval time to pass before you see the data.

Summary

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

- Determine whether historical collection has been enabled for an ITCAM workspace
- Enable historical collection using the provided kynHistoryConfigure script
- Manually enable a new historical collection setting for an ITCAM attribute

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

- Confirm whether or not historical collection has been enabled for an ITCAM workspace
- Enable historical collection using the provided kynHistoryConfigure script
- Manually enable a new historical collection setting for an ITCAM attribute

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