IBM Software Group

IBM WebSphere® Application Server V7

Tivoli® Composite Application Manager for WebSphere - Administration

@business on demand.

This presentation discusses the Tivoli embedded composite application manager as found in IBM WebSphere Application Server V7.

Agenda

- ITCAM administration
- Summary

ITCAM for WebSphere   Administration

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This presentation focuses on administering and using ITCAM.

Section

Administration

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The next section presents an example of ITCAM for WebSphere V7 usage.

Start ITCAM for WebSphere V7

The first step to using ITCAM for WebSphere V7 is to start the ITCAM for WebSphere V7 monitors on each server that has been configured and you want monitoring. This step has to be performed each time the server is started. Note that the sequence above starts with "Monitoring and Testing" from the left panel of the administrative console and proceeds as shown. In the next three steps you select a server, "Tivoli Application Statistics" and the runtime tab in that specific order. In the fifth step, the radio button indicates the action to be taken when you click the "Apply" or "OK" buttons in step 6. Clicking the single button will start ITCAM for WebSphere V7 if it is not running and stop it otherwise.

After starting ITCAM for WebSphere V7, the next step is to select which counters to collect. Your process starts with the "Monitoring and Tuning" menu item from the left panel of the administrative console and proceeds through these steps onto the next page. The steps are select a server and from that main page, click "Custom". This will bring up a new page with the performance monitoring infrastructure counters available. From this latter menu select "ITCAM Application Performance" which brings up the panel shown on the next slide. Note that ITCAM here actually refers to the ITCAM for WebSphere V7 subset in this case.

Select counters

Select	Counter	Type	Description	Status
☐	90%CPUUsage	CountStatistic	This metric collects the CPU usage and then calculates the 90% median CPU usage.	Disabled
☐	90%ResponseTime	CountStatistic	This metric collects the response time and then calculates the 90% median response time.	Disabled
☐	AverageCPUUsage	AverageStatistic	This metric collects the CPU usage and then calculates the average CPU usage in milliseconds.	Enabled
☐	AverageResponseTime	AverageStatistic	This metric collects the response time and then calculates the average response in milliseconds.	Enabled
☐	LastMinuteAverageCPUUsage	AverageStatistic	This metric collects the CPU usage for the last minute and then calculates the average CPU usage in milliseconds.	Enabled
☐	LastMinuteAverageResponseTime	AverageStatistic	This metric collects the response time for the last minute and then calculates the average response in milliseconds.	Enabled
☐	MaximumCPUUsage	CountStatistic	This metric collects the CPU usage and then calculates the maximum CPU usage in milliseconds.	Disabled
☐	MaximumResponseTime	CountStatistic	This metric collects the response time and then calculates the maximum response in milliseconds.	Disabled
☐	MinimumCPUUsage	CountStatistic	This metric collects the CPU usage and then calculates the minimum CPU usage in milliseconds.	Disabled
☐	MinimumResponseTime	CountStatistic	This metric collects the response time and then calculates the minimum response in milliseconds.	Disabled
☐	RequestCount	CountStatistic	The total number of requests.	Enabled

Total 11

This is the final panel to select counters to collect. In step 6, you check the counters you want to turn on and then select enable. You select all the counters by clicking the left most icon under the enable button as shown here. Some of the counters are turned on automatically by the system and will remain in "Disabled" status until needed; these include the items labeled "Disabled" in the picture here.

View output

After starting ITCAM for WebSphere V7 and selecting counters, you can return to the Performance Viewer and find an ITCAM check box under performance modules as shown here. When you check that box, the system will display the ITCAM data collected. Note that ITCAM here actually refers to the ITCAM for WebSphere V7 subset in this case. The last minute category seen here refers to data collected over the last minute.

Section

Summary and reference

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The next section presents a summary and a reference.

Summary

- ITCAM for WebSphere V7 requires a start every time an application server is restarted

- Provides additional counters for Tivoli Performance Viewer

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ITCAM for WebSphere V7 is an enhancement to the Tivoli Performance Viewer found in the administrative console of WebSphere. ITCAM for WebSphere V7 is also a subset of the IBM Tivoli Composite Application Manager, which is a single focus point for a large IT center. ITCAM for WebSphere V7 is installed separately from WebSphere.

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