IBM Tivoli® Composite Application Manager

For IBM WebSphere® Application Server V7 Installation

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

IBM

Goals

- Overview of Tivoli Composite Application Manager for IBM WebSphere Application Server V7
  ▸ No prior knowledge is assumed
  ▸ Reference for more details of the Tivoli Composite Application Manager family

- Installation and configuration instructions

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This presentation presents an introduction to the Tivoli Composite Application Manager for WebSphere V7 and how it relates to IBM Tivoli's composite application manager family. You will also see how to install the composite application manager for WebSphere.

IBM Software Group

Agenda

- Overview

- Installation and configuration

- Problem determination

- Summary and references

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An overview of the Tivoli composite application manager for WebSphere V7 is provided, followed with installation, problem determination and a summary.

Section

Overview

This section presents a high level view of Tivoli's embedded composite application manager.

IBM

IBM Tivoli Composite Application Manager family

- ITCAM – global monitoring
  - ▶ ITCAM Family
    - WebSphere, CICS®, Message Broker and others
  - ▶ Provides a central display
    - Data collectors in each monitored target
    - Selectable levels of monitoring
  - ▶ Automatic diagnose of problem areas
    - Reports
    - Can dive into components of targets

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In the typical IT organization, operators and administrators spend the day moving from one console to another. Logging onto one agent after another, trying to track down the information they need to ensure high performance and availability. The IBM Tivoli Composite Application Manager (ITCAM) family combines deep IT management capabilities with the rich functionality of IBM Tivoli Monitoring products, delivering a truly integrated solution for monitoring and management across the entire enterprise. ITCAM provides a common data model enabling a consistent view of information across all components and agents. This information is then consolidated in one easy-to-use role-based interface for monitoring and solving problems that arise.

ITCAM demonstration

Transaction Profile - Path View
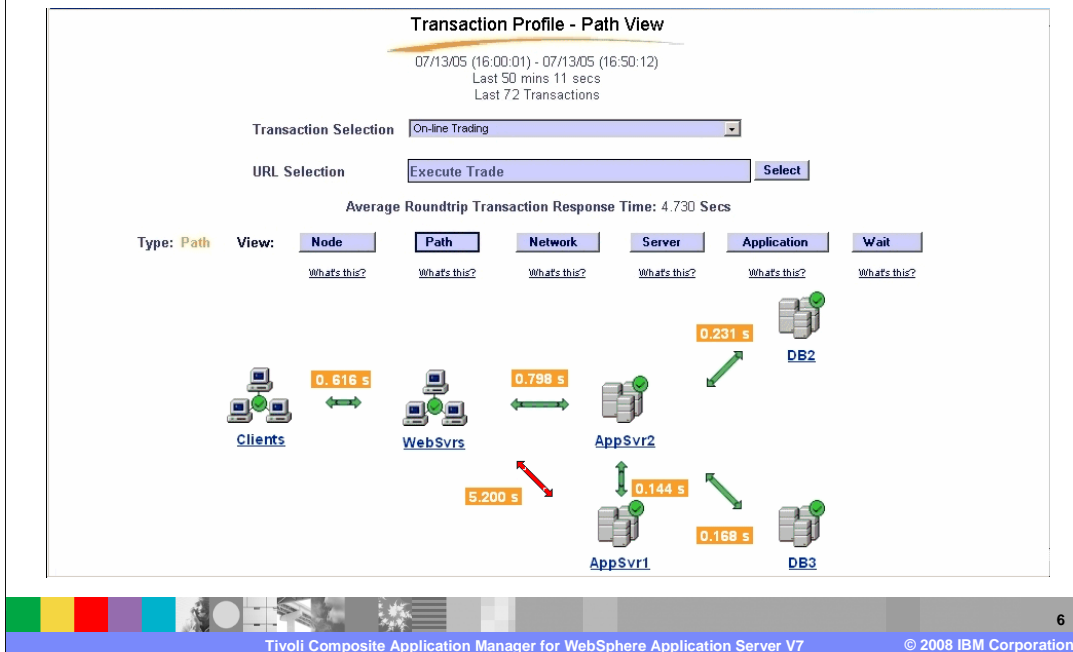
To better understand the ITCAM family and how it integrates with other IBM products, follow the link to the Tivoli ITCAM family flash demonstration in the references. In this sample screen capture from the demonstration you can see AppSrv1 is responding slowly. The demonstration continues to show how an investigation can lead to detecting that a recently installed utility has a memory leak in the application under investigation.

IBM

ITCAM for WebSphere V7

- Subset of ITCAM family

- Display is WebSphere Performance Viewer
  - ▸ Monitoring and Tuning → Performance Viewer

- New display variables

IBM Tivoli ITCAM for WebSphere V7 is a proper subset of the ITCAM family and is a part of WebSphere. Instead of using the ITCAM viewer, the output from ITCAM for WebSphere V7 can only be viewed with the IBM Tivoli Performance Viewer found in the WebSphere administrative console. The net effect of installing and configuring ITCAM for WebSphere V7 is a set of new variables to view or graph in the Performance Viewer.

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Installation and configuration

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The next section shows the steps to install and configure ITCAM for WebSphere V7.

Installing and configuring ITCAM for WebSphere V7

- Installation
  - ▸ From WebSphere V7 launch pad
- Configuration
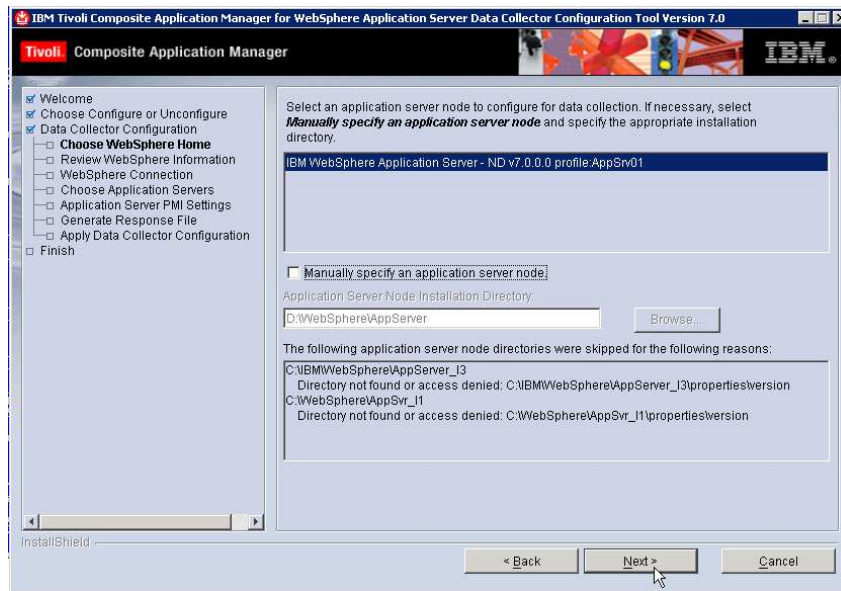 - ▸ …\ITCAM\DC\config_dc\config_dc.exe(sh)
  - ▸ Restart application servers

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ITCAM for WebSphere V7 is installed from the WebSphere Application Server V7 launch pad and that wizard is shown on the next slide. After installing ITCAM for WebSphere V7 the next step is to configure WebSphere servers. The last step of installation offers a check box to start the configuration process or configuration can be started as shown here. These servers or server can be in a network deployment or stand-alone configuration. This process is shown in following slides. After configuring a server it is important to restart the newly configured servers.

Installation
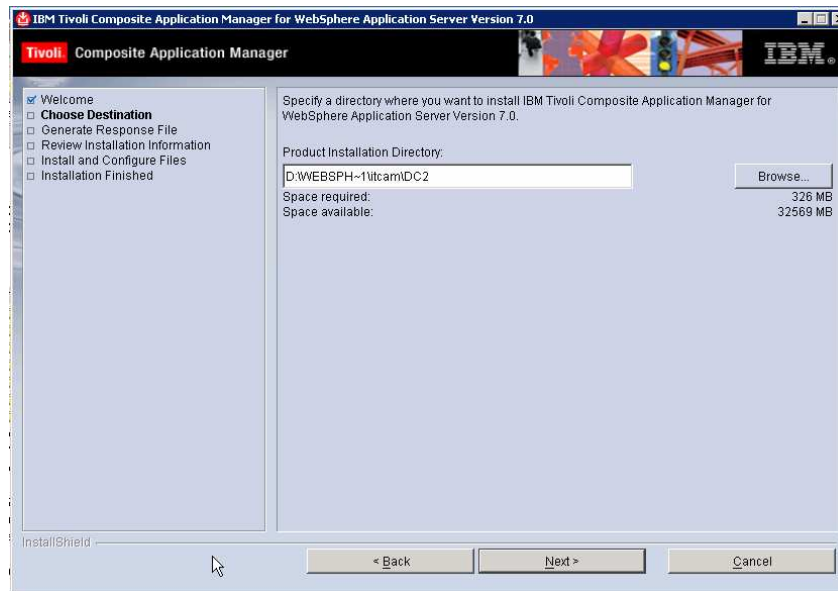
The installation process shown here is very straight forward.

Configuration: select WebSphere instance

The configuration process is shown on these next few slides. After selecting to either configure or un-configure, you must specify which instance of WebSphere to operate on. The system will detect which instances are present or you can specify a WebSphere that is not detected as the case can be.

Configuration: Deployment manager information

The next step is to specify how to communicate with selected WebSphere servers. You must use the fully qualified host name here.
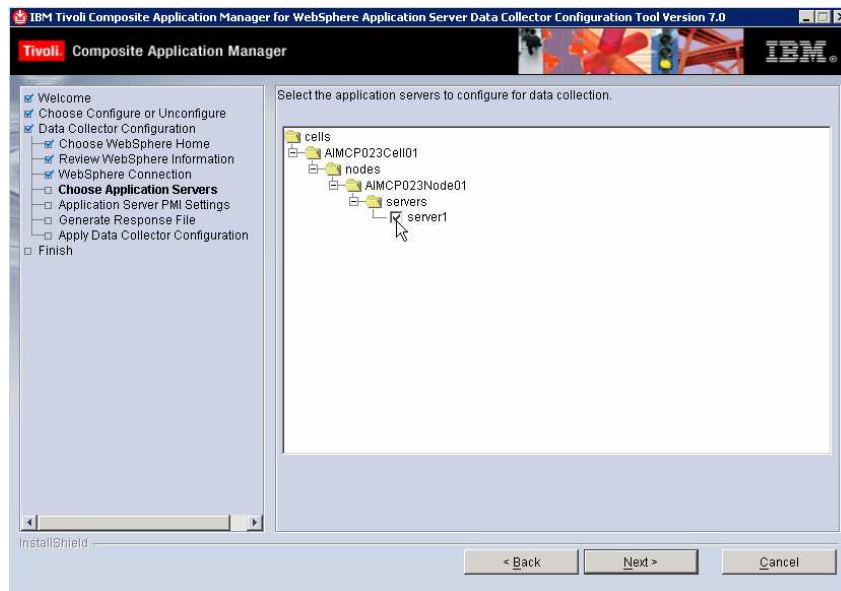
After selecting which servers to configure for ITCAM for WebSphere V7, complete the remaining frames to finish configuring them. Remember to restart all the application servers you just configured.

Section

Problem determination

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The next section discusses problem determination

Logs

- By default logs are at
  - ▶ C:\Program Files\ibm\tivoli\common\...
  - ▶ Or /var/ibm/tivoli/common/…
  - ▶ Both log and first failure data capture

- Location can be configured
  - ▶ Properties file
    - <ITCAM base>\DC\runtime\was7000.AIMCP023Node01.server1\ dc.java.properties
  - ▶ Properties are
    - jlog.common.dir (for Java output)
    - ibm.common.log.dir (for c/native output)

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The debug information is captured into trace and first failure data collection log files. The default root location for all these files is shown here for Windows and UNIX platforms. This location can be changed in the property file as shown here.

Section

Summary and reference

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The next section presents a summary and a reference.

Summary

- ITCAM for WebSphere V7 is a proper subset of the ITCAM family

- Separate install and configure from WebSphere

- Provides additional counters for Tivoli Performance Viewer

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 single focus point for a large IT center. ITCAM for WebSphere V7 is installed separately from WebSphere.

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References

- Tivoli ITCAM demonstration:

http://demos.dfw.ibm.com/brands/tivoli/

The page at the address shown here contains several demonstrations of the IBM Tivoli Composite Application Manager.

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