



IBM Tivoli Monitoring

IBM Tivoli® Monitoring solutions are designed to help manage critical online business applications by proactively monitoring essential system resources, efficiently detecting bottlenecks and potential problems, and automatically responding to events. By leveraging best practices for identifying and resolving infrastructure problems, Tivoli Monitoring solutions can help optimize efficiency in your information technology (IT) department. Proactive system monitoring often identifies problems early, enabling rapid fixes before end users experience significant impact to their performance.

The Euler Hermes Project current Infrastructure we recommend three different IBM Tivoli Monitoring optional Agents which are individually described below with the product name of IBM Tivoli Composite Application Manager. Overall IBM Tivoli Monitoring can provide the following benefits:

- Proactively monitor critical components of your on demand infrastructure, helping you quickly isolate and prevent performance problems
- Visualize real-time and historical performance metrics in both table and chart formats, along with expert advice and automated actions in the IBM Tivoli Enterprise Portal
- Consolidate monitoring and management of both distributed and host-based systems through a single, customizable workspace console
- Put highly customizable and powerful monitoring tools in the hands of more operators; significantly less programmer skills and training are required to deploy the product
- Help reduce total IT operational costs with simplified installation, configuration and lightweight agent rule deployment with self-monitoring capabilities
- Automatically track the status of what matters most in your complex IT environment, and receive alerts only when a problem occurs
- Help optimize IT service delivery by integrating management products and IT processes to drive performance and meet service level agreements
- Help maximize time to value through simplified installation and monitoring, as well as management capabilities through point-and-click technologies

IBM Tivoli Composite Application Manager for WebSphere v 6.1

ITCAM for WebSphere is an application management tool that helps maintain the availability and performance of on demand applications. It helps you quickly pinpoint, in real time, the source of bottlenecks in application code, server resources, and external system dependencies. This product also provides detailed reports that you can use to enhance the performance of your applications. ITCAM for WebSphere provides in-depth WebSphere-based application performance analysis and tracing facilities.

ITCAM for WebSphere enables multiple levels of analysis in order to achieve a complete view of the application, depending on the need. From the production-level monitoring through detailed heap and method debugging, it digs into SQL performance analysis without the need for database monitors. It can provide SQL information and calls that were made through Java Database Connectivity (JDBC™). ITCAM for WebSphere provides a composite status correlation for transactions that use CICS® or IMS™ as the back-end system.

Many system-level performance metrics are collected and reported about J2EE application servers. The status of the servers and their resources (particularly at vital checkpoints such as CPU utilization), memory usage, and the status of internal components such as database connection pools, JVM™ thread pools, EJB™ usage, and request processing statistics can be very useful and important for locating real-time problems with J2EE applications. ITCAM for WebSphere brings attention to these critical indicators with real-time, graphical displays of their values and their trends over time.

IBM Tivoli Composite Application Manager for WebSphere v 6.1 helps us in the given top attributes to resolve Issues in WebSphere Application Server which are given as:

- Garbage Collection Rate History
- Heap Usage History
- Percent of Time Garbage Collector History
- Response Time History
- Worst Average Response Time
- Average Thread Pool Usage
- Most Popular Web Application
- Worst Error Rates
- Log Analysis

IBM Tivoli Composite Application Manager for Databases

In today's fast-moving world, the performance and availability of your e-business infrastructure can mean the difference between success and failure. Losing availability of a business-critical database server, or performance degradation in your database environment, can result in significant financial loss, as well as longer-term damage to your brand. With the increase in enterprise strategic applications and e-business systems, not only has the number of database resources increased but they are also spread across many locations. Thus the task of managing multiple types of database servers has become increasingly complex for the IT professional.

IBM Tivoli Composite Application Manager for Databases can help increase the availability of your database resources and take actions to avert or alert you to potential problems with the performance of those resources. Tivoli Monitoring for Databases can help you:

■ Monitor the status SQL Database Servers

Provides real-time status on the availability and performance of database servers through best-practices monitoring of key database components.

■ Notify Administrators and Take Automated Actions

Out-of-the-box identification of common database server problems notifies administrators of potential issues and automates actions to help implement fixes before problems affect end users.

■ Go Beyond Monitoring

Collects monitoring data for use in historical reporting, performance analysis, trend prediction and enterprise wide business impact analysis.

IBM Tivoli Composite Application Manager for Active Directory®

Provides a central point of management for your Microsoft Active Directory service, allowing early problem detection and prevention. Multiple servers can be monitored from a single console, and information is standardized across the system.

The Monitoring Agent for Active Directory offers a central point of management for your Microsoft® Active Directory service. It provides a comprehensive means for gathering exactly the information you need to detect problems early and to prevent them. You can monitor many servers from a single workstation, and information is standardized across the system.

IBM Tivoli Composite Application Manager for Active Directory helps us in the given Attributes which are given as:

- Network replication status and performance details
- Directory system utilization information
- Local security authority details
- Name Service (NS) details
- Security Account Manager (SAM) details
- File Replication Service (FRS) details
- Distributed File Replication (DFS-R) details
- Active Directory network status
- DNS details relevant to Active Directory
- DHCP details relevant to Active Directory
- Physical storage details for Active Directory
- Knowledge Consistency Checker details
- Kerberos Key Distribution Center details
- Lightweight Directory Access Protocol details
- Address book performance and utilization details
- Built-in logon authentication and user authorization information
- Communication data between the Active Directory and Exchange Directory Service (XDS)

References

1. IBM Official Website
2. IBM Tivoli Software Red Books
3. IBM Tivoli Software Presentations
4. IBM Tivoli Software Demos