Leverage Your Investment in CA Wily Introscope: Expanded Database Performance Metrics with CA Insight DPM Integration

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Abstract

> Participate in this lab and learn how to add and use database performance, notification and display for SQL Server, Oracle, Sybase and DB2 for Linux, UNIX, Windows, DB2 for z/OS within CA Wily Introscope. CA Insight Database Performance Manager topic matter will be covered.
Agenda

> CA Insight DPM
  - Performance management of SQL Server, Oracle, Sybase, DB2 for Linux, UNIX and Windows

> Leveraging CA Insight DPM Integration with Wily Introscope
  - Integration Example for CA Wily Introscope
  - Remote Monitoring Example
  - DBMS Overview at the CA Wily Introscope console
  - Investigator view
  - Scan timing
  - Scan turn off at integration
How Do You Keep Up With Complexity

> The operational characteristics of your database and system constantly change. You cannot use batch scripts and reports to monitor a complex, continuous process.

> At any particular moment in time, the service state of a database can be definable by several hundred data points.

> To often you find your day is driven by others interpretation or assessment of independently sampled data points.

> You probably own, have had experience with tools not designed or can integrate for end to end performance management. You may even have tried to build your own monitoring and performance collection but were unable to keep up with the increasing database size and complexity.

> You need a way to consistently obtain performance data and be notified on deviations from normal so that you can focus on the corrective action.

> Our solution to help you is

   - CA Insight Database Performance Manager (CA Insight DPM)
Integration with CA Wily Introscope

> CA Insight stores database metrics in a flat-file or MDB
> CA Insight captures granular database metrics
> CA Wily Introscope captures metrics and stores in its own repository
> CA Wily Introscope summarizes metrics overtime
> The repositories (CA Insight DPM and CA Wily Introscope) are not linked
  - Purge in one repository does not mean clearing the other repository
> Database performance data is being sent to CA Wily Introscope via the Insight Bridge for CA Wily Introscope
> Performance information being sent via the Insight bridge for CA Wily Introscope
  - Database performance metrics
  - Alarms
> Database metrics and alarms can be provided via local or remote monitoring
> SQL captured in real-time
Typical Integration

- Run DCC setup and select the option to install the Insight Wily Bridge
- During the installation, you are going to be asked for the location of the Wily Introscope server
  - The installer can perform this step for you
  - You can also copy the jar files over to the Introscope server deploy directory
- Copying the Insight Wily Bridge manually
  - Extract the `<setup mount point>\iddwly\rhlx24\iddwly.tar`
  - Copy the extracted files from the iddwly.tar ball to the Introscope server “deploy” folder
- The DCC setup creates the necessary Windows service to run the Wily bridge in the background
- Double check that the `%iddwly_home%\conf\databaseagent.profile` contains the correct Introscope server and port (5001 – default)
- The Insight database agent needs to be entered in the `%iddwly_home%\conf\ppdatabases.properties`
  - `remote-agents: sa-nsm/5104/ms2005-default@sa-nsm`
- Start the Insight Bridge for CA Wily Introscope service
Remote Integration

> Remote integration takes place at the `%iddwly_home%\conf\ppdatabases.properties`
  - remote-agents : sa-nsm/5104/ms2005-default@sa-nsm

> DB2 for z/OS integration
  - db2zos-servers : hostname/5321/DB2PTF
  - # Credentials for DB2 z/OS
  - db2zosusername : username
  - db2zospassword:CS_ENC:TpAGW/Zb5eE=

> Multiple remote Insight Bridge for CA Wily Introscope service agents can be setup
CA Wily Introscope Customization

> User defined dashboards can be created with the Insight Bridge for CA Wily Introscope service elements
> User can create metrics groupings as desired
> Based off the metrics groupings – user can create custom alerts
Insight Bridge For CA Wily Introscope Service Customization

> Insight Bridge for CA Wily Introscope service metrics are controlled by the Insight agent policies

> CA Wily Introscope polling of the Insight Bridge for CA Wily Introscope service can be changed as needed

> Additional CA Insight DPM scans can be added to the Insight Bridge for CA Wily Introscope service
Alarm Integration

> Alarms are automatically passed to the Insight Bridge for CA Wily Introscope
Database Metrics

> Example of some of the metrics

- SQL capture in real-time
- Tablespace
- Locks
- User Sessions
Database Performance Shared Across IT Domains

Databases

One Collection of Database Performance Information

Database Staff

CA Insight DPM

Application Staff

Network Staff

Server Staff

CA Spectrum SA (GA Nov 09)
CA Spectrum IM
CA eHealth PM
CA Wily Introscope
CA NSM

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In Summary

> CA Insight DPM can be used out of the box as well as extended to automate your performance monitoring

> The Database Performance Shared Across IT Domains integration works right away out of the box

> Database performance metrics are provided to the application monitoring personnel to build a complete picture of how the database is performing from the application point of view
Appendix Reference
## CA Insight DPM Port Reference

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Component Name</th>
<th>Default Port Used</th>
<th>Type Port (UDP, TCP)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA Insight DPM</td>
<td>DCC Job Agent</td>
<td>5101</td>
<td>TCP</td>
<td>Used for communication of the DCC job agent to create/remove Insight agents, and to launch fast unload and reorganization jobs</td>
</tr>
<tr>
<td>CA Insight DPM</td>
<td>DCC Event Management</td>
<td>5102</td>
<td>TCP</td>
<td>Used for communication with the CA Insight event manager to send messages to the NSM event manager or the common services (for stand-alone event manager for Insight)</td>
</tr>
<tr>
<td>CA Insight DPM</td>
<td>CA Insight DPM Agents</td>
<td>5104</td>
<td>TCP</td>
<td>Used for the communication between the CA Insight workspace in the DCC portal and the Insight agents installed at the server levels.</td>
</tr>
<tr>
<td>CA Insight DPM</td>
<td>CA SystemEDGE Insight</td>
<td>161 1691</td>
<td>UDP</td>
<td>Used for SNMP communication with CA Insight Agent.</td>
</tr>
<tr>
<td>CA Insight DPM</td>
<td>AIM</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>CA Insight DPM</td>
<td>MDB</td>
<td>1433</td>
<td>TCP</td>
<td>Used for CA Insight Agent ODBC communications to the MDB.</td>
</tr>
<tr>
<td>CA Insight DPM</td>
<td>MDB</td>
<td>1521</td>
<td>TCP</td>
<td>Used for CA Insight Agent JDBC communications to the MDB.</td>
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<tr>
<td>CA Insight DPM</td>
<td>Insight Wily Bridge</td>
<td>5001</td>
<td>TCP</td>
<td>Used for communication between CA Insight Wily Bridge and the Wily Instroscope server</td>
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</tbody>
</table>
Thank You!