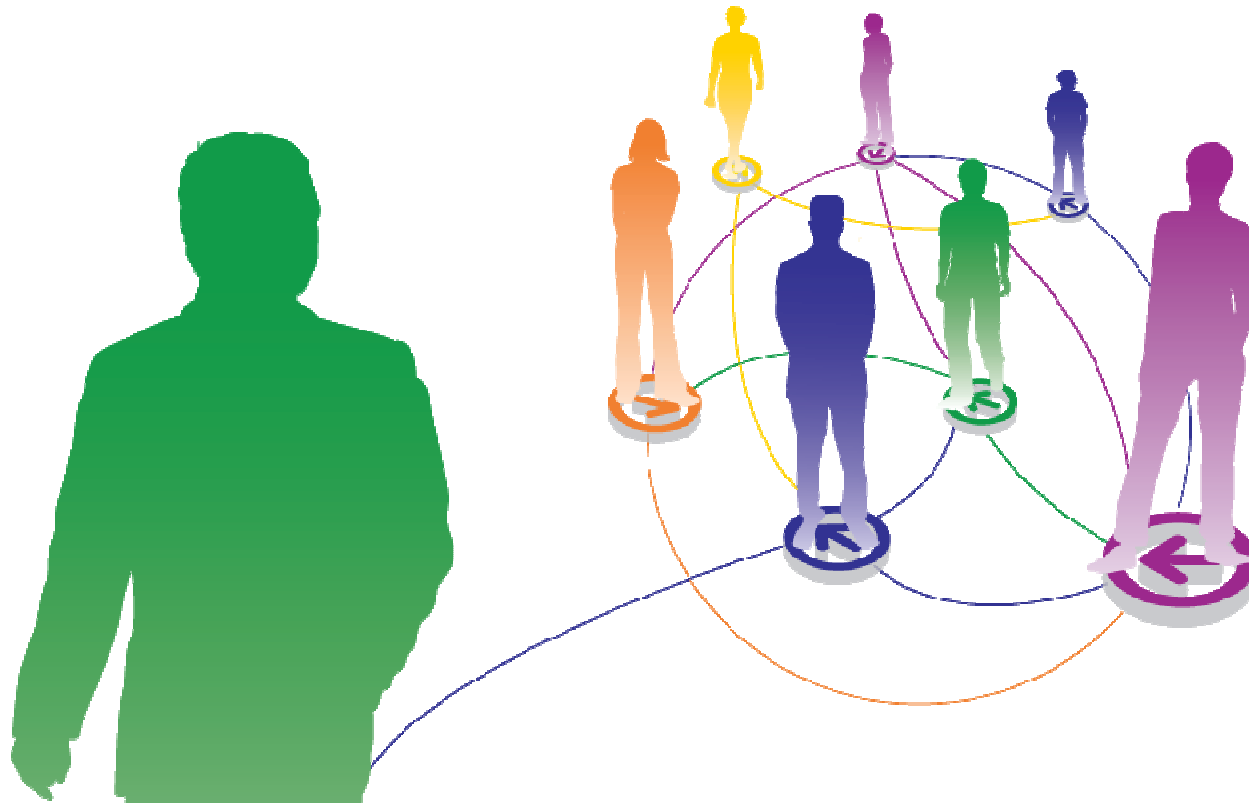


DB2 for z/OS Tools Overview

Tom Kisielewicz

IT Specialist, DB2 Tools for z/OS



IBM Information
ON Demand 2009



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Agenda

→ **DB2 for z/OS Tools Portfolio Overview**

- Business Challenges
- Solution Overview

→ **Integrated Data Management**

→ **Product Spotlight:**

OMEGAMON XE for DB2 Performance Expert

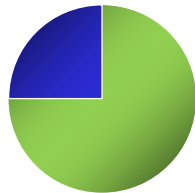
→ **Summary**

→ **Q&A**

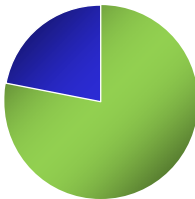


Data Management Must Drive Competitive Advantage

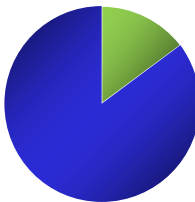
Survey: CIO's want to strengthen competitive advantage by better managing enterprise data



75% of CIO's believe they can strengthen their competitive advantage by better using and managing enterprise data.



78% of CIO's want to improve the way they use and manage their data.



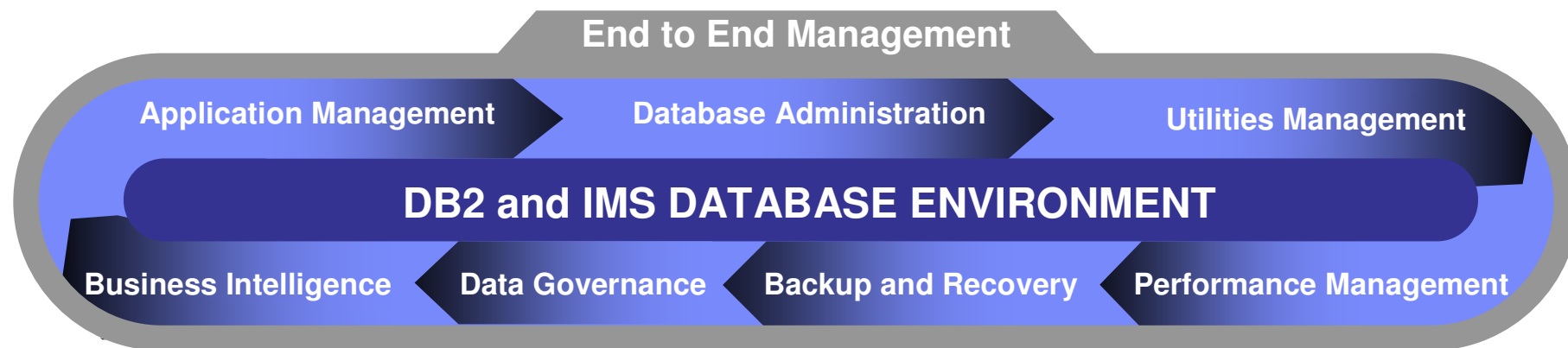
...but **only 15%** believe that their data is currently comprehensively well managed.

- Lowering costs associated with IT management
 - Resources
 - Availability
 - Productivity
- Proactive problem management
- Free up staff to drive business growth and optimization

Source: Accenture CIO Data Management Survey 2007. n=167 CIOs



Managing your business environment



Business Challenges

- Optimizing costs associated with maintaining existing applications
- Quickly responding to new business requirements and opportunities
- Ensuring that business and regulatory needs can be properly met
- Maximizing IT staff productivity to streamline business operations



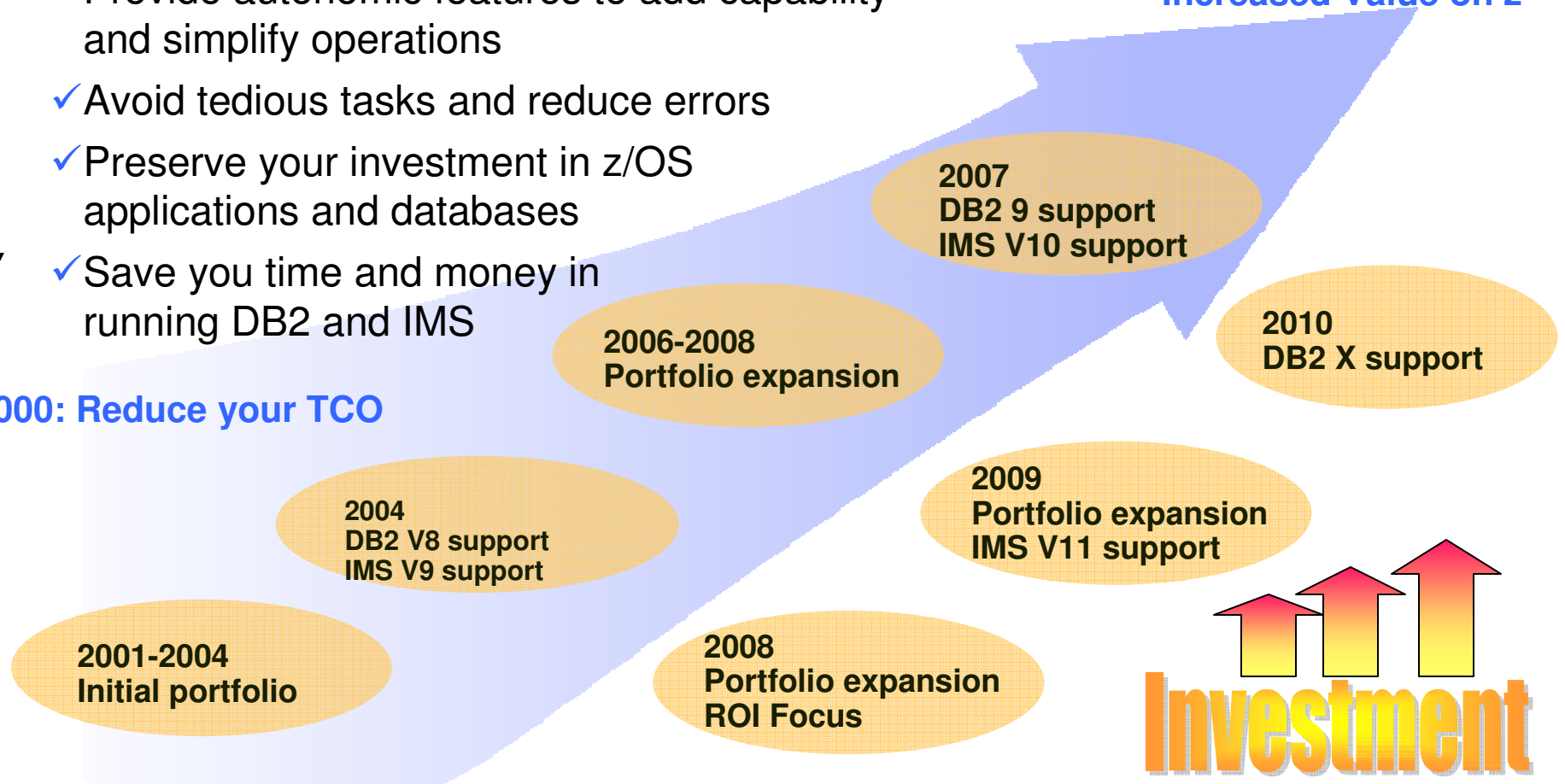
DB2 and IMS Tools

Reducing TCO is our first focus

- ✓ Provide autonomic features to add capability and simplify operations
- ✓ Avoid tedious tasks and reduce errors
- ✓ Preserve your investment in z/OS applications and databases
- ✓ Save you time and money in running DB2 and IMS

2009: Reduce your TCO
Increased Value on z

2000: Reduce your TCO





Application Management

Business Challenges

- Maintaining and updating applications to support new requirements
- Minimizing performance impact when updating applications
- Minimizing downtime associated with application rollovers
- Managing complex application changes in a team environment

Application Management

- DB2 Administration Tool
- DB2 Path Checker
- DB2 Bind Manager
- DB2 Query Monitor
- DB2 SQL Performance Analyzer
- DB2 Table Editor
- Optim Development Studio
- Optim Query Tuner
- Optim Test Data Management
- Optim Data Growth



Database Administration

Business Challenges

- Managing changes to database objects and systems
- Propagating changes to other database environments
- Understanding the database resources required to support a change
- Administering storage usage

DB2 Tools

- DB2 Administration Tool
- DB2 Object Comparison Tool
- DB2 Storage Management Utility



Utilities Management

Business Challenges

- Reducing resources used for unloading, reloading, and REORging data
- Automating utilities-related tasks to simplify maintenance for DBAs
- Proactively preventing failures of utilities or applications
- Achieving higher availability and performance of database applications

DB2 Tools

- DB2 Utilities Suite
- DB2 Automation Tool
- DB2 High Performance Unload
- DB2 Utilities Enhancement Tool

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Performance Management

Business Challenges

- Tuning SQL statements and database systems to improve performance
- Maximizing system resource utilization
- Setting alerts to know when performance thresholds are reached or exceeded
- End-to-end monitoring of your mission critical systems

DB2 Tools

- OMEGAMON XE DB2 Performance Expert
- DB2 Query Monitor
- DB2 SQL Performance Analyzer
- DB2 Buffer Pool Analyzer
- Optim Query Workload Tuner
- Optim pureQuery Runtime
- Optim Development Studio



Backup and Recovery

Business Challenges

- Identifying resources that must be in place to ensure a proper recovery
- Determining which objects have been impacted by a failure
- Time spent to create and maintain disaster recovery scenarios

DB2 Tools

- DB2 Recovery Expert
- DB2 Log Analysis Tool
- DB2 Cloning Tool
- DB2 Change Accumulation Tool
- DB2 Object Restore Tool
- DB2 Archive Log Accelerator
- Application Recovery Tool for IMS and DB2 Databases



Data Governance/Data Security

Business Challenges

- Ensuring sensitive data is protected throughout the application lifecycle
- Validating that company processes comply with existing regulations like PCI
- Protection from Insiders – privileged users -- is key

DB2 Tools

- Optim Data Growth
- Optim Data Privacy
- Optim Test Data Management
- DB2 Audit Management Expert
- Encryption Tool for DB2 and IMS



Business Intelligence

Business Challenges

- Maintaining real-time warehousing information co-located near OLTP systems
- Need for performance, reliability and data security in warehouse systems
- Managing large volumes of data needed for query, reporting and analysis
- Making business decisions based upon analysis of data collected

DB2 Tools

- Cognos for z/Linux
- DataQuant
- QMF



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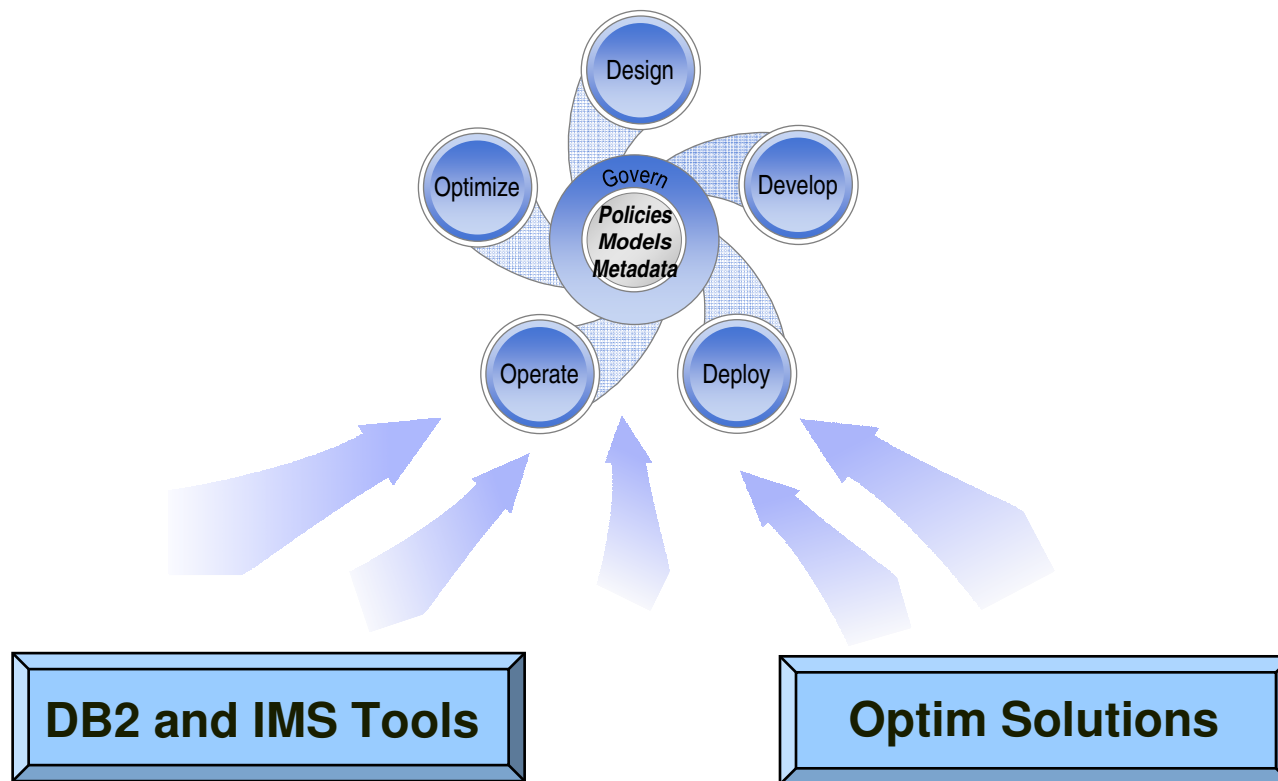
OMEGAMON XE for DB2 Performance Expert

→ **Summary**

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Solutions for Integrated Data Management



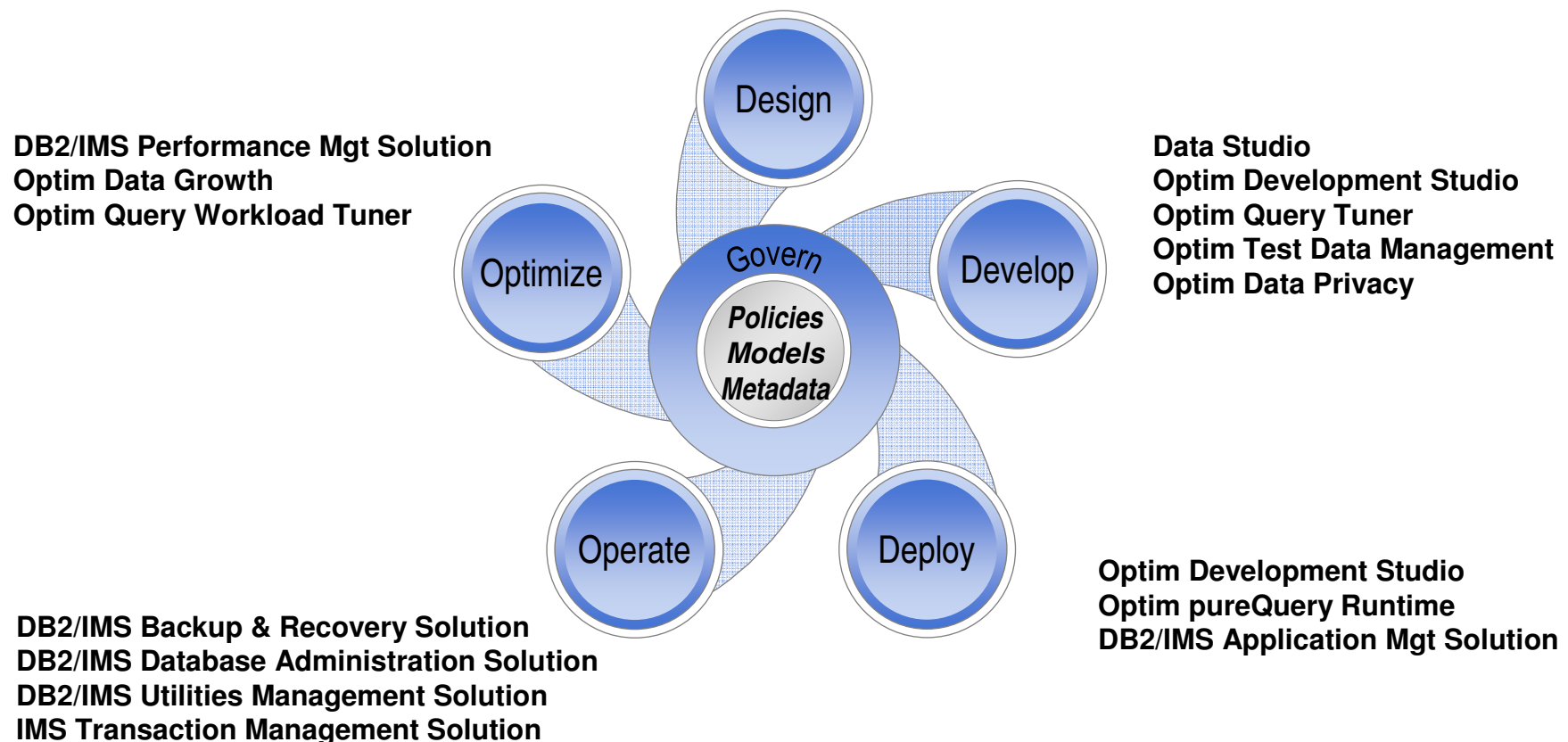
DB2/IMS Database Administration Solution
DB2/IMS Backup & Recovery Solution
DB2/IMS Utilities Management Solution
IMS Transaction Management Solution
DB2/IMS Data Governance Solution
DB2/IMS Application Management Solution
DB2/IMS Performance Management Solution

Optim Test Data Management
Optim Data Privacy
Optim Data Growth
InfoSphere Data Architect
Optim Development Studio
Optim pureQuery Runtime
Optim Query Tuner
Optim Query Workload Tuner



DB2 and IMS Solutions that manage the value of your data throughout its lifetime

InfoSphere Data Architect



DB2/IMS Data Governance Solution



Integrated Data Management Portfolio Strategy

→ Support for parallel development / administration models

- z/OS-specific
 - 3270-based user interfaces
 - Generation of JCL for job submission
 - Emphasis on rich z/OS function
- Cross-platform
 - Web-based and Eclipse-based user interfaces
 - Stored Procedures
 - Emphasis on heterogeneous database support

→ Clients may have a need to support both of these models

→ Provide cross-platform support and tool integration to simplify development and administration

- Develop for LUW and z/OS with InfoSphere Data Architect and Optim Development Studio
- Common z/OS and LUW UI for Optim Test Data Management, Data Privacy, and Data Growth Solutions
- Common Extended Insight end-to-end database monitoring leveraging OM/PE
- OM/PE and Query Monitor integration with Optim Query Tuner
- Continued investigation into integration opportunities

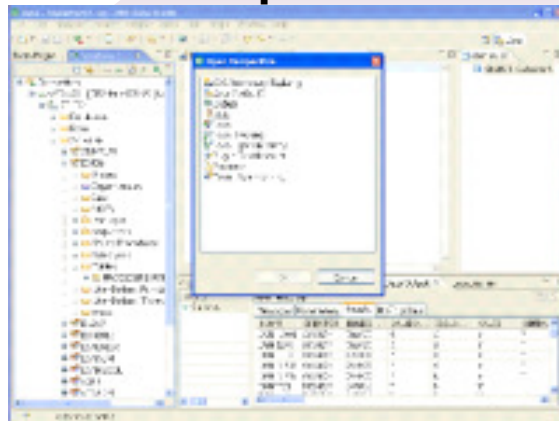


Integrated Data Management User Interface Directions

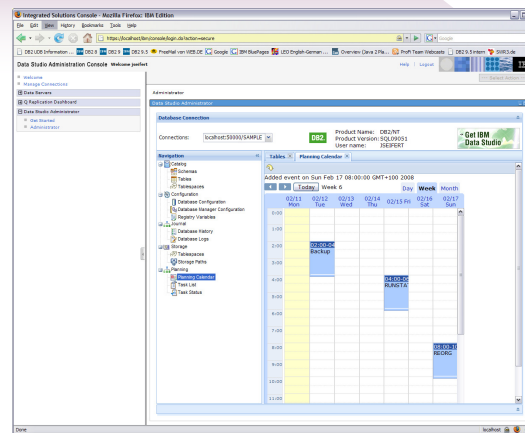
Optim Solutions

z/OS Tools

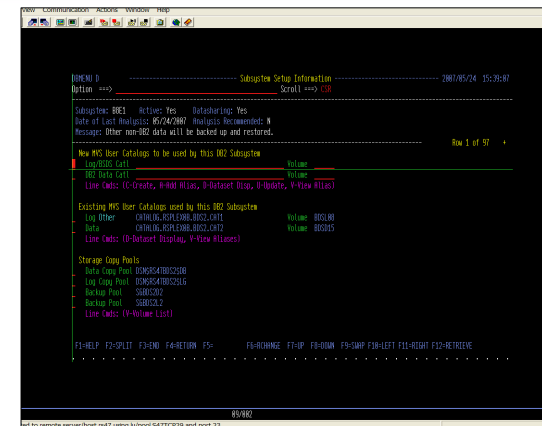
Eclipse UI



Web UI



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Develop and Deploy

- Design and Development
- Configuration
- Object Management
- Change Management
- Automation Planning
- Data Governance

Operate

- Monitoring
- Automation Management
- Reporting

z/OS Database Administration

- Rich z/OS function
- Application Management
- Database Administration
- Performance Management
- Data Governance



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Drill-Down: OMEGAMON XE for DB2 Performance Expert

→ DEMO



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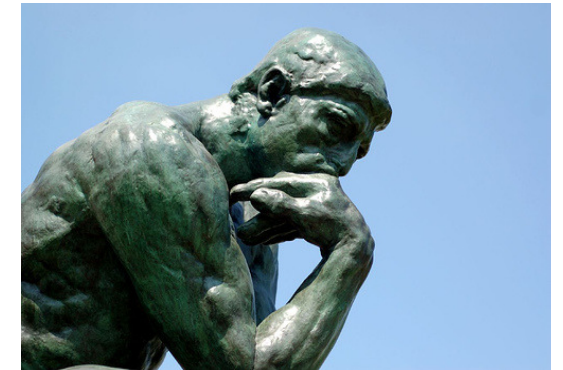
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Why IBM Tools?



- **Reduce TCO** by optimizing IT staff efficiency
 - ▶ Every product is developed with one goal; to lower the TCO of managing the DB2/IMS environment

- IBM has a **vision** and is **investing in a strategy** for its tools
 - ▶ We introduced 3 DB tools in 2000 – we have 100+ today
 - ▶ Continuous improvement of IBM tools over the last 7 years

- A **comprehensive portfolio** to manage, access, integrate and analyze data
 - ▶ Support and exploit DB2 V8, DB2 9, and IMS V10 today



Find out more about DB2 and DB2 Tools from IBM

- <http://www.ibm.com/software/data/db2/zos/family/>
DB2 for z/OS Family – News, events, and highlights
- <http://www.ibm.com/software/data/db2imstools/products/db2-zos-tools.html>
DB2 Tools for z/OS – News, events, and highlights
- <http://www.ibm.com/software/data/db2imstools/db2tools-library.html>
DB2 Tools for z/OS - Brochures, technical manuals, data sheets, newsletters, and more
- <http://www.ibm.com/software/data/db2/>
DB2 Product Family – Offerings, highlights, and more
- <http://www.ibm.com/software/data/db2/9/>
DB2 for LUW Family – Offerings, highlights, and resources
- <http://www.ibm.com/software/data/db2imstools/products/db2-luw-tools.html>
DB2 Tools for LUW – News, events, and highlights



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Thank
YOU