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Preventive Performance Management Tool (Performance Analyst) – Overview and Demo







Outline

- Introduction to Performance Analyst
- Tool evolution and roadmap
- Architecture summary
- Major architecture features and design goals
- Getting Started
- Demo
 - Environment Profiles
 - DB2 Snapshot Analysis
 - Dashboard
 - OS (AIX, Windows)
 - WAS
 - DB2 (DB2, Oracle)





Introduction to Performance Analyst

Performance Analyst is a tool to make performance analysis manageable

- Import performance data for analysis. Examples:
 - DB2 snapshot
 - Java verbose GC output
 - Java thread dumps
- Import software/middle-ware configuration for analysis and checking:
 - Configuration data for DB2, Oracle, WebSphere, and Operating Systems
- Spreadsheet-like interface for easy access and manipulation of imported data.
- Rules-based engine for defining alerts to detect symptoms from the imported data
 - An out-of-box pre-defined set of rules are provided, based on common performance best practice of supported software and middle-ware.



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Evolution Path and Roadmap



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Overall System Architecture



Alerts	Data Exporting	Directory Data Importer	Remote SSH Importer	WebSphere wsadmin Importer	Java Verbose GC Importer	Plug-in Management	
Context Help	Charting	DB2 Snapshot Importer	DB2 Package Cache Importer	DB2 Diagnostic Log Importer	CSV Importer	TPAE Trace Importer	



Target Systems / Components					
Operating System	Application Server	Database Management System	Web Server	Applications	



Major Architecture Features and Design Goals

Self-Service tools

- > Help customers to answer their performance questions by themselves
- > Spot signs of problem pattern before it becomes catastrophic
- Identify the problematic areas faster and allow remediation to happen faster.
- > Provide Searches and Filters to analyze complex log correlations and occurrences.
- Cut down on time of resolving problems
- Export to CSV for extended use and reporting
- > Can be used by customer or all levels of support.

Rules Based Architecture

- Exception definition rules with logical expressions
- > Define thresholds to highlight important findings, offer explanation and suggestions and analysis.
 - Important exceptions: Deadlocks, OOM, CPU starvation, Fetch stop limit, JVM crashes, Long running SQLs etc.
 - MBO count, memory, connection thresholds, user load and sessions etc.
- No code change for additional rules
- Configuration enforcement rules for next release

Product agnostic implementation

- > Start with products based on Tivoli's process automation engine
- Current Plug-ins can be applied to other products with similar architecture (operating system, application server and db server)
 - Additional product specific rules can be defined
- Extensible plug-in architecture
- > Product specific plug-ins can be added leveraging functions provided by existing components



Getting Started

- Download the tool from <u>http://ibm.biz/BdxDbg</u>
 - Versions available for Windows, Linux, and OS X
 - > Java 6 or later must be installed to run the tool
 - > Extract into a folder of your choice and run the executable





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Demo

