Introducing IBM Tivoli Monitoring

Stefano Borghetti Service Availability and Performance Management Software Engineer Email: <u>stefano_borghetti@it.ibm.com</u>





Disclaimer



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- IBM Tivoli Availability and Performance Monitoring concepts
- IBM Tivoli Monitoring key features
- IBM Tivoli Monitoring reporting
- IBM Tivoli Integrate Portal Mission



Service Availability and Performance

Optimizing Architecture, Applications and Service Performance



Visibility

Visualize service performance and health across all network, server, middleware and application components.

Control

Increase effectiveness and productivity, reduce errors and improve availability through consolidated tooling.

Automation

Keep costs under control as all aspects of infrastructure grows with integrated policy-based automation.

IBM Availability and Performance



Pulse2012

All your operations presented in its Business Context

Integrated Operations Console

- Over 50 IBM & Tivoli Products integrated today
- Highly Scalable can start small and grow quickly
- Massively scalable event management
- Broadest set of system and device support
- Fully Integrated Granular Warehousing

Nearly Invisible Agents

• Low CPU & Memory

Support for both agent and agent-less monitoring

Agent Factory to be able to integrate "anything"

4

Customers need availability solutions



Application Performance Management Porfolio



Core value proposition of systems monitoring

Improve the Mean Time To Recovery (MTTR)

- By Some Estimates
 - 10% of users report a problem they have
 - 90% "try again later" (or not) or move on to something else.
- Can you quickly get to a root cause?

Provide Incident Avoidance

- Could you forecast and prevent a server incident?
- Do you have the tools and processes to report, forecast and alert on a future server incident?

Tivoli can improve MTTR by quickly correlating, isolating and diagnosing root cause and provide incident avoidance through historical navigation, dynamic thresholding, and capacity forecasting, reporting and alerting





Industries' most extensive resource monitoring



Incident avoidance - dynamic thresholds

Dynamic thresholds can calculate baseline values using one of several statistical functions based on historical data from the Tivoli Data Warehouse and agents. Allowing you to tracking deviations **from the norm** as predictors of future problems.

- No automated approach to define
- No warning of abnormal behaviors prior to peak periods
- No flexibility in the monitoring environment



- Automated definitions with + or variations
- Thresholds can be defined for select systems, under certain conditions, or scheduled periods
- Proactive warning for abnormal behavior occurring before peak periods or during non-peak periods



6am 7am 8am 9am 10am 11am 12am 1pm 2pm 3pm 4pm 5pm 6pm 7pm 8pm 9pm 10pm

Integrate with IBM SPSS Statistics for forecasting

- Non-seasonal models:
- Simple
- Holt's
- Brown's
- Damped

Seasonal models:

- ▶ Simple
- Winters' additive
- Winter's multiplicative
- ARIMA (*)

And in addition:

Expert Modeler – SPSS selects the best model automatically

(*) ARIMA = Auto-Regressive Integrated Moving Average



Comparison – linear vs non-linear



Agent technologies in ITM v6.2.3



What is the Agent Builder

- Eclipse based GUI for agent development
 - Wizard guides you through developing an agent
 - Browsers for common data sources
 - Generated Agents run on Windows, AIX, Linux, Solaris, HP-UX
 - Create a full Agent by incorporating queries, situations and workspaces.
 - Create an installable image local install and remote deploy image
 - Create a single agent for availability, log monitoring, and performance metric gathering
- Agent features
 - Includes support for common management data sources and extensions to allow gathering of custom data
 - Includes common data manipulation



Agent Builder Toolkit WH **TDW** Proxy TEPS Agent-less: CIM TEP Agent-less: SNMP Console V1, V2C, and V3 Hub Agent-less: TEMS JMX Agent-less: WMI, Perfmon, Agent Builder Based Event Log Remote Remote Agent TEMS Agent-less: **JDBC** WMI, Agent-less: Log Availability **Scripts** Perfmon, HTTP/HTTPS File **Event Log** Agent-less: Agent-less: **ICMP** SSH/RXA



Mobile support via COGNOS

- Cognos Mobile includes native and web-based clients for:
 - Apple iPhone and iPad
 - RIM BlackBerry smart phones and PlayBook
- Support for devices using the following operating systems:
 - Android 3
 - Symbian
 - Windows Mobile
- Broad BI capabilities on mobile devices
 - Seamlessly view and interact with reports, dashboards, analysis, plus more
- The most up to date BI available at your fingertips
 - Make timely and accurate decisions
- Analysis on the go
 - Helps you keep a pulse on your business while on the road
- Location-aware intelligence
 - Receive relevant information based on your location¹
- Interact with information offline or online
 - Drill up and drill down
 - Drill through
 - Zoom in and out
 - Cell highlights
- Confidently deploy BI to any mobile device
 - BI and device-level security
 - Single authoring environment
 - Single administration environment
 - Flexible support for the leading mobile devices





Tivoli Integrated Portal Mission Statement

- To provide a Web 2.0 integrated service management portal across multiple Tivoli products which supports:
 - Single sign on
 - A unified security model
 - A consistent look and feel
 - Serving up content from multiple Tivoli products integrated into interactive screens to support drilldown scenarios
 - Is highly customizable by systems-integrators, administrators and end users
- Eliminate siloed product consoles and the need to jump between multiple windows to perform service management tasks
- Supports multiple user personas, ranging from end users to service administrators



TIP Operating Systems dashboard



* Content subject to change, is not a commitment



TIP Operating Systems dashboard



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Questions?

