

AppDynamics: Help Your Application Owners Take the Risk Out of Virtualizing Their Production Java Apps

The decision to virtualize java applications in production can strike fear into the heart of even the bravest IT professional. Only AppDynamics provides the visibility, confidence, and problem-solving firepower that application support teams need in order to monitor and manage virtualized apps.



“AppDynamics gives us the visibility we need to ensure an optimal customer experience every time.”

Giri Nathan, VP of Engineering
Priceline.com

You already know the benefits of virtualizing java applications – disaster recovery, manageability, agility, and server consolidation. But when it comes to actually making the move, application owners often voice these concerns:

- Will my application achieve the same SLAs once virtualized as it does on bare metal?
- Can the virtualized environment handle my availability, response, and overall performance needs?
- My app is too critical and too important to be run on shared resources!
- What's in it for me? What benefits will I receive?

For the virtualization project to succeed, you need hard evidence that your mission-critical application will perform as well in the virtualized environment as it does in the bare metal environment. The best way to do that? Get a monitoring and management solution that's built from the ground up for a virtual and cloud world.

THE APPDYNAMICS ADVANTAGE:

- **VM-ready business transaction monitoring.**

Legacy systems management solutions focus only on server or CPU usage. That doesn't work in the resource-sharing world of virtualization where CPU health becomes a poor proxy for application health. Instead, AppDynamics focuses on business transactions – the unit of measurement

that truly matters to your business. And we correlate business transaction performance with infrastructure performance to give a complete view of SLA achievement. Our technology works by injecting instrumentation into the java bytecode, and by tracing transactions along each hop of its journey in a SOA environment.

- **Dynamic application discovery.**

AppDynamics dynamically discovers the application infrastructure, and readjusts the map even when new code is introduced. This is a crucial asset in a virtual environment where everything changes, all the time.

SUPPORTED ENVIRONMENTS

VMWare

vCloud v0.8 through Terremark
ESXi v3.5

Amazon EC2

Latest API

J2EE Server/Java Infrastructure Support

Websphere | Weblogic | JBoss | Tomcat |
Glassfish | Jetty | OSGi.

JVM Support

Sun Java 1.5, 1.6 | IBM JVM 1.5, 1.6 | JRockit 1.5, 1.6.

Transaction Identification, Discovery and Customization:

Servlet/JSP 2.x | Spring Beans 2.x | EJB 2.x, 3.x |
JMS 1.x | Struts 1.x, 2.x | Spring MVC.

JMS--Asynchronous Transaction Correlation:

IBM MQ 6.x, 7.x | Weblogic & Websphere Embedded
JMS JBoss MQ | Fiorano MQ | Progress Sonic MQ |
Active MQ

Distributed SOA Support:

Axis 1.x, 2.x | Weblogic JAX-WS/JAX-RPC |
Websphere JAXWS/JAX-RPC | CXF 2.x | XFire |
JBoss Native Stack

Database Support:

Oracle | MS SQL Server | IBM DB2 |
Postgres | MYSQL

WHO IS IT FOR?

- IT Operations
- Production Support
- Developers
- Anyone whose phone rings when the application is having problems

PROBLEMS SOLVED

- Slow response time
- Memory leaks
- Stalls
- Deadlocks
- Thread contention problems
- Slow database response
- Database connection pool errors

• Dynamic instrumentation.

In a virtual environment where VMs are spun up and killed frequently, your monitoring approach can't be reliant on a dedicated agent on a static server. AppDynamics agents can be bundled in the application binary image so that whenever a VM is created with the latest application image, the AppDynamics agent automatically registers with the AppDynamics controller. This means that your monitoring system and the visibility it provides will always be correct, up-to-date, and reliable.

• Complementing AppSpeed with code-level diagnostics.

While VM Ware's AppSpeed tool provides a wide-angle, network view of the application environment, AppDynamics can provide both a distributed business transaction view as well as the deep code-level diagnostic view – even down to response times for individual methods and classes to enable rapid root cause analysis.

• Advanced Policy Engine and Performance Baselines.

In the past, monitoring systems relied on static thresholds as the detection approach for identifying problems. But this created false alarms when the static threshold didn't account for seasonality in the daily/weekly load patterns. AppDynamics self-learns the normal behavior of each business transactions – and helps you troubleshoot consistent patterns of poor performance.

• Application level dynamic scaling via vCloud.

AppDynamics also leverages vCloud environments by enabling application-level dynamic scaling and cloud bursting. The AppDynamics advanced policy engine and orchestration platform can respond in real-time to changes in load/throughput/response times, thus adding capacity to better ensure SLA achievement.

• Built for high-volume production environments.

We deliver wide AND deep visibility with less than 2% overhead. But don't take our word for it. AppDynamics customers such as Priceline, Tivo, Taleo, and Netflix all deploy us in production – every day.

THE BENEFITS ARE CLEAR:

- Application Owners get the confidence that their mission-critical applications will meet SLAs service levels just as well as they did on bare metal.
- The Virtualization team gains a tool for removing objections that may stall or permanently derail the virtualization project.
- Both teams gain a new level of visibility and control into virtualized application performance. And they take advantage of a common unit of measure – the business transaction – where SLA goals and achievement can be measured.
- All of the standard virtualization benefits can be achieved – including server consolidation, better manageability, better failover/disaster recovery, and business agility.

FIND OUT MORE – FOR FREE.

Take the 30-Day Trial:
www.appdynamics.com

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