**Microsoft**

# Application performance monitoring
## with System Center 2012 R2

Microsoft System Center 2012 R2 helps you realize the benefits of the Microsoft Cloud OS by delivering unified management across your datacenters, service provider datacenters, and Windows Azure.

The application performance monitoring capability supports the Cloud OS by providing application owners and IT teams with rich diagnostics and insight, such as the following, to help deliver predictable application service level agreements (SLAs):

- rich APM for .NET and Java applications
- an accurate view of real-world performance and availability of your applications
- faster remediation of application issues

**Applications are what really matter to your business. You need your business-critical applications to be available and performing reliably as per their defined SLAs. Having detailed application diagnostics at your fingertips enables you to fix problems before they lead to downtime or impact productivity. Microsoft System Center 2012 R2 provides rich monitoring diagnostics and insight that deliver predictable application SLAs, enable rapid application lifecycles, and assure great end-user experiences.**

## Rich application health monitoring

Mission-critical applications serve as one of the core ingredients of any successful business. Predictable SLAs help ensure that these applications remain available and perform reliably. Having access to detailed application metrics enables you to monitor the health of your infrastructure and trigger best-practice responses. System Center 2012 R2 gives you the ability to quickly diagnose and remediate application issues. Offering a relentless focus on optimizing your applications and workloads, System Center 2012 R2 delivers powerful insights that facilitate predictable application SLAs.

## Deep application insight

Many essential business applications today include distributed components that operate within and outside corporate firewalls. System Center 2012 R2 Operations Manager offers powerful application performance monitoring (APM) for .NET and Java applications that helps ensure the availability of your business-critical applications. For .NET applications, System Center 2012 R2 and System Center 2012 SP1 provide detailed performance and availability metrics including multiple perspectives, such as server-side, client-side, end-user experience, and synthetic transaction monitoring. Easy-to-use reporting and dashboards help you effectively track and communicate SLAs. In addition, code-level issue traceability enables you to track down offending lines of code, even when you have not written the application code yourself. For Java applications, System Center 2012 delivers Java APM for Tomcat application servers (v5.5, v6, v7 support) across Windows and Linux (for RHEL/SUSE distributions) environments, including support for a variety of standard Java application frameworks.
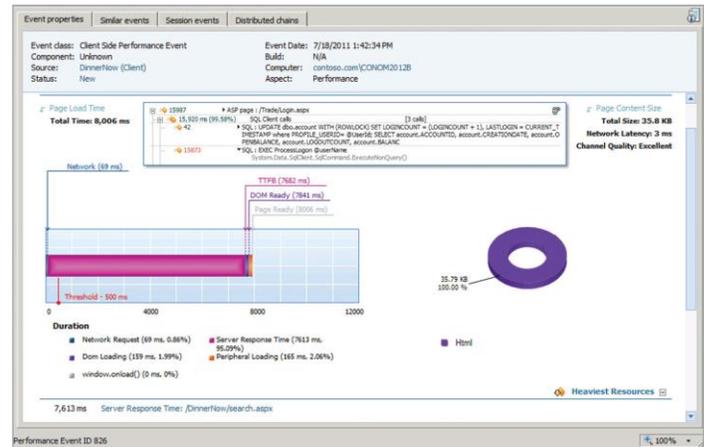
# Cloud-integrated insight in familiar monitoring console

With global application deployments, application owners need to see an accurate view of end-user experiences. With System Center Global Service Monitor (GSM), a Software Assurance benefit to System Center customers, you can effectively assess the real-world performance and availability of your applications based on global points of presence in Windows Azure. Operations Manager informs GSM which application endpoints to invoke with the web tests and also forms a schedule. The end result is a broad set of data to assess the health of an application and decide when intervention is necessary.

System Center Advisor, a component of System Center, provides best-practice configuration guidance from Windows Azure for your Microsoft workloads (SQL, Exchange, Lync, and SharePoint) through your Operations Manager console. In addition, Operations Manager offers an extensive knowledge base of Management Packs that can optimize availability and performance for Microsoft workloads as well as third-party enterprise line of business (LOB) applications such as SAP.

# Integrated DevOps that spans people, processes, and systems

In the world of cloud computing and modern apps, you need to know that your applications are up-to-date in terms of functionality and performance. Operations Manager integrates with Microsoft Visual Studio, through a connector, to enable productive development and operations collaboration. The connector simplifies sending detailed diagnostics and insight provided by Operations Manager directly to the developers work queue. Additionally, a unified Microsoft Monitoring Agent enables IntelliTrace telemetry into the System Center-Visual Studio integration, helping developers improve productivity by working in their native environments to debug application issues. Furthermore, GSM integration between System Center and Visual Studio enables you to use defined web application URLs and thresholds to exchange relevant end-user experience metrics. This combination of capabilities helps facilitate faster remediation of application issues and the delivery of predictable service level agreements.

# Next steps

- See additional System Center 2012 R2 resources http://www.microsoft.com/en-us/server-cloud/products/system-center-2012-r2
- Read about System Center 2012 R2 on TechNet http://www.microsoft.com/technet
- Download and evaluate System Center 2012 R2 http://msft.it/trycloudos
- Visit the System Center marketplace: http://systemcenter.pinpoint.microsoft.com
- Check out our blogs http://blogs.technet.com/server-cloud