What’s New in System Center 2012 R2 - Operations Manager?

Kevin Greene
System Center Cloud & Datacenter MVP
@kgreeneit
Space Mission Objectives

- The Story So Far
- What’s New in R2?
- Loads of Demo’s
- Q&A
Let’s go back in time a bit....
SC 2012 Operations Manager investments

**Infrastructure and Workloads**
- No more RMS
- Network monitoring
- Linux/Unix authoring

**DevOps**
- .NET APM
- JEE Monitoring

**Experience**
- Extensible dashboards
SP1 Investments

Infrastructure and Workloads
- Virtual fabric and storage monitoring
- New Linux distributions

DevOps
- GSM
- Enhanced APM: WCF, MVC, .NET Windows services, IIS8
- TFS & Intellitrace integration

Experience
- Better dashboards
- DevOps scenarios
What’s New in R2?
SC 2012 R2 Investments

Infrastructure and Workloads
- 360 Infrastructure monitoring
- Improved Azure monitoring
- Advisor integration

DevOps
- Java APM
- Enhanced Intellitrace & TFS integration

Experience
- Improved dashboard performance

http://www.systemcenteruniverse.ch
Let’s look a little deeper..
Getting Started

- No more support for 64bit Itanium processors
- Additional prerequisite - Windows Identity Foundation
- Support for installation on Windows Server 2012 R2
- Web Console runs on IE11
- Network monitoring now supports IPv6 addresses
New Microsoft Monitoring Agent

- Replaces the old ‘Operations Manager Agent’

- Can run as a standalone agent separate from OpsMgr

- Includes .NET APM and Intellitrace Standalone Collector

- Can be used to collect data from IIS and port into Visual Studio
PowerShell Get’s Even Better

- PowerShell 4.0 is now supported
- Over 173 cmdlets available
- 7 new cmdlets exclusive to OpsMgr 2012 R2 help you manage User Roles and System Center Advisor integration
Over on the dark side...
Cross-Platform on R2

- UNIX and Linux agents are now based on the Open Management Infrastructure (OMI) open-source CIM Object Manager.

- Same install/uninstall process as before

- Debian GNU/Linux 7 is now supported by the Universal Linux agents and Management Packs.
Now for the really cool stuff!
Fabric Monitoring
Private Cloud Monitoring in R2

- At a glance view of cloud health, and health of the underlying fabric/VMs
- Easy root cause analysis by linking to existing dashboards such as network monitoring
Demo
Private Cloud Monitoring
Monitoring Your Workloads
New MP Updates for Workloads

- Best of breed Monitoring for Workloads
- Updated management packs for:
  - WS2012 R2
  - Exchange 2013
  - System Center 2012 R2
  - SharePoint 2013
  - SQL 2012
Public Cloud Monitoring with the Windows Azure MP
Management Pack for Windows Azure

- Simplified configuration experience

- Delivers Monitoring for:
  - Cloud Services
  - Virtual Machines (Availability)
  - Storage Account (Availability and Size)
  - Certificate health monitoring (expiration)

- New dashboards, views and templates
Demo
Windows Azure MP
System Center Advisor Integration
Proactive Monitoring with SC Advisor

CUSTOMER CONFIGURATIONS

BEST PRACTICE CONFIGURATION

Lync Server
SharePoint
SQL Server
Exchange Server
Windows Server
Fabric Components
Benefits & Features

- Proactively avoid configuration problems
- Reduce downtime and improve performance
- Resolve issues faster

http://www.systemcenteruniverse.ch
Demo
SC Advisor as an Attached Service
Application Performance Monitoring (APM)
APM Overview

- .NET & Java APM fully integrated
- Comprehensive view on application activity and “health” state
- Applied without source code modification
- Low performance overhead
- Built-in analytics and reporting
Java APM

- Performance and Exception Events within SCOM Application Advisor

- Ops Manager Level Alerting on Java Application Server counters
  - Requests / Second
  - Perf Events / Second
  - Exception Events / Second
  - Average Request Time
Java APM – Supported Configurations

- Tomcat (v 5.5, 6, 7)
  - Windows
  - Linux
- Java JDK (5, 6)
- Web Technologies
  - GenericServlet
  - Struts
  - Struts2
  - Axis2
Demo
APM
Bringing It All Together with 360 Application Monitoring
We need your feedback! Thank you!

Session Feedback
https://de.surveymonkey.com/s/SCU2013DACHSessionFeedback

Overall Conference Feedback

Scan the QR codes to access the feedback forms.