

Infrastructure 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 infrastructure monitoring capability delivered by the Operations Manager component of System Center 2012 R2 supports the Cloud OS with comprehensive monitoring across your physical, virtual, and cloud infrastructure, irrespective of where these components reside.

With infrastructure monitoring, you can take advantage of a detailed set of features that include the following:

- best-of-breed Windows monitoring and rich cross-platform monitoring, including Linux and VMware
- network monitoring, including physical and virtualized device views
- infrastructure health management for Windows Azure resources
- best-practice workload configuration in conjunction with System Center Advisor

To optimize your hybrid cloud environment, you need a management solution that can provide reliable performance and availability of your complex infrastructure of applications and operating systems. System Center 2012 R2 provides extensive monitoring capabilities for your physical, virtual, and cloud deployments across on-premises, service provider, and Windows Azure environments.

Comprehensive monitoring of physical, virtual, and cloud infrastructures

Many organizations today utilize physical, virtual, and cloud resources to run a diverse mixture of operating systems and business-critical applications. As a result, they often depend on complex toolsets to monitor infrastructure health, maintain availability, and build reliable workload configurations.

The Operations Manager component of System Center 2012 R2 provides comprehensive infrastructure monitoring for your physical, virtual, and cloud infrastructure across your on-premises datacenters, service provider datacenters, and Windows Azure.

Best-of-breed Windows monitoring, robust cross-platform support

A sizeable number of enterprises today run System Center Operations Manager in their environment. As a result, Microsoft has gained extensive knowledge on Windows Server-based environments. That knowledge base serves as the foundation for the best-in-class monitoring capabilities of Windows Server environments and the Management Packs that Operations Manager supports. Many organizations however, have heterogeneous datacenter environments spanning Windows and non-Windows environments. As a result,

cross-platform monitoring becomes a vital capability. That's why Operations Manager brings together, within a single console, rich monitoring across platforms, such as RHEL/SUSE Linux, Unix, Oracle Solaris, HP-UX, and IBM AIX. Alerts and expert diagnostics help you track datacenter issues and quickly troubleshoot and fix any problems that arise.

Network monitoring and cloud infrastructure health

You want a monitoring solution that can help ensure health across your different environments. Operations Manager offers a comprehensive dashboard view that provides deep visibility into your on-premises and cloud infrastructures. Bringing together availability and performance metrics across your storage, network, and compute fabrics, the dashboard view enables you to quickly take action based on infrastructure needs. The dashboard includes health metrics for a variety of resources, such as load balancers, IIS pools, storage units, hosts, storage pools, file servers, virtual machines, Virtual Machine Manager servers, and host clusters.

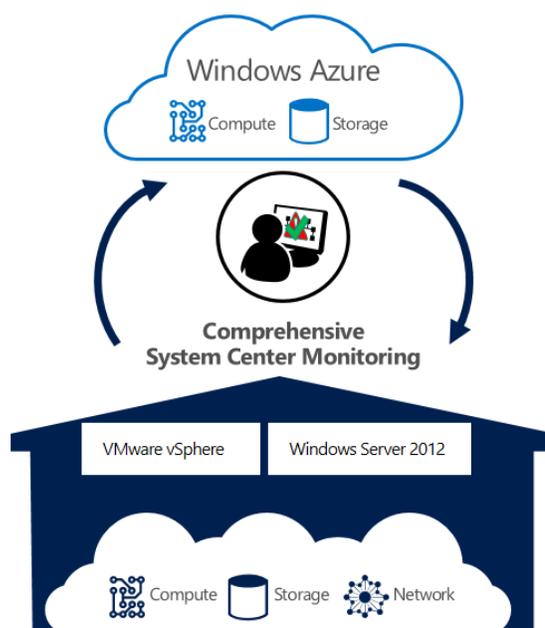
Instead of simply monitoring each server, Operations Manager enables you to examine the underlying network topology that connects your servers, including virtual switches. A series of built-in network monitoring features help you discover and oversee the health of physical devices. For example, vicinity views illustrate device interconnectivity with the rest of the network, including the display of virtual switches.

The System Center Management Pack for Windows Azure enables you to monitor availability and performance of your Windows Azure resources and services through your Operations Manager console. Additionally, this Management Pack offers you the ability to combine your on-premises components with Windows Azure components, providing a unified hybrid view within a familiar console to monitor all your resources in the application service.

Best-practice workload configuration

Businesses today look for consistent and reliable configuration guidance and automation for their platform and workloads. System Center Advisor offers best-practice

configuration guidance for optimizing your Microsoft workloads, such as Windows Server 2012, Hyper-V Server 2012, SQL, Exchange, Lync, and SharePoint. Utilizing the familiar Operations Manager console, System Center Advisor helps your IT staff proactively avoid problems associated with server configuration issues as well as quickly resolve any issues that arise. Microsoft has also introduced a connector between System Center Advisor and Operations Manager so that you can consume workload configuration insights in your familiar Operations Manager monitoring console.



System Center delivers comprehensive monitoring capabilities across hybrid datacenter environments.

Next steps

- See additional System Center 2012 R2 resources <http://www.microsoft.com/en-us/server-cloud/products/system-center/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>