

# Automation and self-service

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 automation and self-service capability supports the Cloud OS by providing application owners and IT teams the required agility and control to do the following:

- utilize self-service access to provision application services
- gain a unified view across onpremises, service provider, and Windows Azure infrastructures
- deploy automated workflows that trigger additional capacity provisioning

With the growth of cloud computing, datacenter administrators must balance new demands with their existing remit to deliver operational efficiency. The consumers of their Information Technology (IT) services — application owners — must address the speed and agility demands of their business stakeholders. Microsoft System Center 2012 R2 gives application owners self-service access to provision their own applications and IT the tools to drive automation and control.

### Application agility and IT control

The popularity of public cloud computing has led enterprise application owners to expect IT to become faster and more agile. Anything less often results in their trying to work around IT. For IT teams, such expectations and results create a major roadblock towards maintaining a trusted advisor relationship with their application and business counterparts. System Center 2012 R2 puts IT firmly in control with visibility across on-premises, service provider, and Windows Azure resources and applications while giving application owners the agility they want with a self-service application management experience.

#### Simplified application provisioning

With the growing popularity of cloud services, enterprise application owners expect simple and fast dealings with IT. System Center 2012 R2 provides application owners self-service access to provision their application services. Service templates, accessible from System Center Virtual Machine Manager (VMM), help define application requirements, providing a blueprint for specifications such as hardware, operating systems, and application packages that makes service provisioning faster and less error-prone. Application owners can then deploy first-party Microsoft workloads (such as SharePoint farms) as well as line-of-business (LOB) applications using the agreed-upon service templates. For multi-tenant environments, a Windows Azure-consistent user experience enables tenant end users to provision multi-virtual machine services based on defined parameters set by the infrastructure administrator for each tenant.

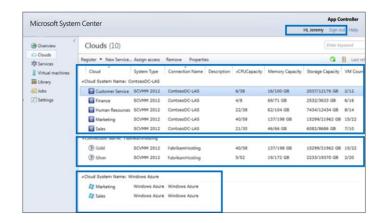


# Unified management views and artifacts between Windows Server and Windows Azure

IT teams today want one set of tools for managing the datacenter infrastructure used to host applications, irrespective of where they might be hosted. The System Center App Controller provides a unified view across onpremises, service provider, and Windows Azure infrastructures, delivering the visibility and control that IT needs to work around capacity issues. IT can easily extend datacenter capacity by uploading on-premises Virtual Hard Disk (VHD) images into Windows Azure, which application owners can then utilize for LOB apps or Microsoft workloads (such as SharePoint). Application owners can migrate core applications such as SQL Server and SharePoint Server from on-premises environments to Windows Azure with just a few clicks. App Controller also enables easy virtual machine and workload portability between Windows Server and Windows Azure without the need to convert formats.

### Scale application tiers with automation and integration

Sometimes, datacenter capacity bottlenecks can compromise application service level agreements (SLAs). System Center 2012 R2 enables application owners to work with their infrastructure administrator counterparts to deploy automated workflows that trigger additional capacity provisioning. This functionality comes from the rich automation toolsets that Microsoft provides and supports, such as Orchestrator and Windows PowerShell. For example, you could provision additional capacity in Windows Azure by using the Windows Azure Integration Pack to trigger an automated workflow within Orchestrator. The trigger threshold can be defined within Operations Manager, which would then generate an alert that kicks off the workflow to provision capacity ondemand. You can also extend Orchestrator to develop your own integration packs that implement datacenter workflows and processes specific to your business.



System Center 2012 R2 App Controller provides a unified view across your extended datacenter, delivering visibility and control to manage capacity issues.

#### Next steps

- See additional System Center 2012 R2 resources http://www.microsoft.com/en-us/servercloud/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