CLOUD
AUTOMATION

CLOUD AUTOMATION ALLOWS IT TO BE MORE AGILE IN SUPPORT OF CRITICAL BUSINESS OBJECTIVES

IIS HAS SUBSTANTIAL EXPERIENCE DESIGNING, DEPLOYING AND SUPPORTING CLOUD INFRASTRUCTURES – AND CAN HELP ANY BUSINESS RECOGNIZE SIGNIFICANT BENEFITS THROUGH CLOUD AUTOMATION.

Traditional IT roles, responsibilities and enterprise spending are shifting toward public, private and hybrid cloud solutions. Consequently, specific lines of business (LOBs) within your enterprise may, for the first time ever, be driving IT spending. With so much IT spending now going outside the in-house IT department, IT requires a new toolset to help LOBs meet business objectives

IIS CLOUD AUTOMATION SOLUTIONS

International Integrated Solutions, Inc. (IIS) offers a total cloud management solution (CMS) that gives your IT department the tools to deliver successful business outcomes. Our solutions help you automate cloud management, allowing your IT department to be more agile and once again be "the hero" of the company.

At IIS, we have long-term, proven experience helping businesses increase agility and respond to business requirements. IIS leverages CMS solutions from Red Hat, HPE, and VMware to help meet the business driven workload requirements. As a result of IIS's expertise and investment in this technology, IIS has achieved the highest level of partner status with our vendors (Red Hat premier, Vmware premier, and HPE Platinum partner.) IIS was also named the HPE Global Partner of the Year and North America Software Partner of the Year. Working with IIS, you can fully leverage both our first-hand CMS experience and our network of world-class alliance partners.

USE CASES
THE NEED FOR CLOUD AUTOMATION

The old adage says, "the only constant in life is change" – and that's certainly the case for today's businesses. You're not alone in your need to be highly agile; it's the overarching problem that IIS solves for our clients.

One of the best ways to improve agility is through cloud automation. Below is an outline of how cloud automation helps solve common business problems.

PROBLEMS

- How to increase business agility with private and public cloud options
- How to reduce deployment times, improve reliability and repeatability
- How to prevent the vendor lock-in effect of homogeneous environments
- How to reduce IT cost (both CAPEX and OPEX)

SOLUTIONS

- Self-service portal for on-demand cloud provisioning
- Configuration automation empowers IT to quickly respond to business needs.
- Heterogeneous architecture avoids the problems of vendor lock in and allows organization to deploy workloads in the best fit scenarios for each specific workload.
- As the following use cases demonstrate, IIS has the cloud automation experience to help your IT department respond to the growing need for on-demand services.

USE CASE 1

UPGRADE OPERATING SYSTEM (OS) ACROSS ENVIRONMENT

PROBLEM

IT NEEDS TO REDUCE DEPLOYMENT TIMES, IMPROVE RELIABILITY AND REPEATABILITY OF SERVERS AND OS ACROSS THE ORGANIZATION.

In this case, we found a mix of Red Hat Enterprise Linux (RHEL) 5 and Windows OS in use across the organization. Additionally, with RHEL 5 approaching the end of its normal lifecycle, there was a need to begin upgrading to RHEL 7. We also found a mix of cloud providers in use across the organization, including Microsoft Azure, VMware vCloud Air and Amazon Web Services Cloud (AWS).

SOLUTION

IIS PROVIDES CUTTING-EDGE HETEROGENEOUS ARCHITECTURE TO SOLVE UPGRADE ISSUES

IIS PORTAL SOLUTIONS

- Red Hat CloudForms to accelerate provisioning with a self-service portal that ensures compliance and governance

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IIS CONFIGURATION SOLUTIONS

• Red Hat Ansible automates and simplify application and infrastructure delivery

IIS OS PATCHING SOLUTIONS

• Red Hat Satellite to automate cloud management tasks including Linux OS provisioning, configuration and patching of the Red Hat infrastructure
• Microsoft SCCM to manage application and patch deployment of the Windows environment

IIS RESOURCE MONITORING SOLUTIONS

• VMware's vROPs to monitor the performance of physical and virtual infrastructure

BENEFITS
GAINS IN EFFICIENCY FROM CLOUD MANAGEMENT AND AUTOMATION

• A primary benefit is a reduction in provisioning time allowing LOBs to meet business objectives faster by provisioning workloads in the best fit on premise or cloud environment from a single user interface
• The secondary benefit is increased agilty in maintaining OS and hardware refresh cycles providing a more stable platform across various environments
• An additional benefit is standardized service catalog images that ensure the reliability of the OS and application-provisioned instances and reduce human error

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USE CASE 2
SERVER LIFE CYCLE STANDARDIZATION

PROBLEM
IT NEEDS TO REDUCE COSTS WITHOUT CREATING A VENDOR LOCK-IN SITUATION

In this use case, IIS found a mix of server sizes and resources being utilized. Additionally, there were no standardized server images, and there was a mix of operating systems in use across the organization, including Windows Virtual Machines and RHEL. We also found a mix of Cloud service providers in use across the organization, to include Microsoft Azure, VMware vCloud Air and AWS.

IIS HAS MANY CMS OPTIONS TO SOLVE THE LIFE CYCLE STANDARDIZATION PROBLEM

IIS PORTAL SOLUTIONS

VMware's vRealize Automation (vRA) automates end-to-end delivery of physical and virtual infrastructure across on premise resources and public cloud providers

IIS CONFIGURATION SOLUTIONS

Red Hat Ansible automates the entire lifecycle and simplifies application and infrastructure delivery. Ansible playbooks can be used across different providers to help avoid vendor lock-in

IIS OS PATCHING SOLUTIONS

Red Hat Satellite automates cloud management tasks to include provisioning, configuring and updating Red Hat and application images

Microsoft SCCM manages application and patch deployment for the Windows server environment

IIS RESOURCE MONITORING SOLUTIONS

VMware's vROPs monitors the performance of infrastructure

BENEFITS
STANDARDIZATION AND REDUCED COSTS

- The primary benefit is lifecycle standardization across multiple operating environments while reducing outages
- A secondary benefit is reduced OPEX spending due to fewer wasted resources and elimination of idle servers

USE CASE 3
EXPANDING TO PUBLIC CLOUD

PROBLEM
IT NEEDS TO INCREASE SPEED AND AGILITY TO MEET LOB COMPUTING NEEDS

In this use case, we found that IT needed to increase agility to cost-effectively serve seasonal requirements, marketing campaigns and

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new product launches. A proven, repeatable model for rapidly deploying dozens (or even hundreds) of web servers – without deploying a commensurate number of problems – had to be made available.

IIS PROVIDES TOTAL CLOUD SOLUTIONS TO AUTOMATE CLOUD MANAGEMENT AND HELP SOLVE AGILITY PROBLEMS

IIS PORTAL SOLUTIONS

Hewlett Packard Cloud Service Automation/HP Operations Orchestration (HP CSA OO) accelerates the deployment of application-based services

IIS CONFIGURATION SOLUTIONS

Red Hat Ansible automates and simplifies application and infrastructure delivery, providing a reliable way to quickly execute repetitive tasks that is both predictable and secure

IIS OS PATCHING SOLUTIONS

Red Hat Satellite automates cloud management tasks to include provisioning, configuring and updating Red Hat infrastructure

Microsoft SCCM manages application and patch deployment for the Windows server environment

IIS RESOURCE MONITORING SOLUTIONS

VMware's vROPs monitors the performance of physical and virtual infrastructure

BENEFITS
INCREASED SPEED AND AGILITY THROUGH CLOUD MANAGEMENT AND AUTOMATION

- The primary benefit is a single portal to deploy workloads to the best fit platform, including Microsoft Azure, VMware vCloud Air, AWS, etc.
- A secondary benefit is a reduction in OpEx spending by properly sizing operating environments to meet the workload requirements.

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IIS PROVIDES TOTAL CMS SOLUTIONS THAT ENABLE IT TO DELIVER SUCCESSFUL BUSINESS OUTCOMES

This eGuide illustrates the importance of cloud automation as part of a total CMS solution. Our long-term experience building IT infrastructures and alliance with top tier partners makes IIS uniquely qualified to deliver today's CMS solutions designed to meet the most challenging requirements. IIS history of delivering complex IT solutions has provided us with best practices, policies and procedures to create and deliver cloud automation and cloud management solutions. These solutions free up your staff by automating routine and repetitive tasks, reducing provisioning time while increasing stability, performance and agility to respond to business needs.

Every day IIS helps IT departments strengthen their toolsets with a variety of cloud automation tools. If you think cloud automation could help your company's success, visit us at www.iisl.com or give us a call at (877) 704-4001 for a free consultation on your specific situation, and how our cloud management offerings can help.

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