BladeLogic Virtualization Manager

Overview

The term virtualization broadly describes the process by which a data center resource is abstracted and separated from the underlying physical delivery of that resource. This virtual infrastructure or abstraction layer provides the means to manage pooled resources across the enterprise, resulting in data centers that are more responsive to changing requirements and business needs. Virtualization has emerged as important data center technology since it enables IT organizations to tackle challenges associated with key data center initiatives, such as server consolidation, optimizing testing and development environments, and ensuring business continuity through high availability and disaster recovery.

With the proliferation of virtualization technology in today's data centers, IT organizations require a unified approach to managing, controlling and enforcing configuration changes to their server and application environments, regardless of whether the environment is virtual or physical. With the emergence of strict IT compliance controls, regulatory pressures are putting an unprecedented emphasis on managing granular server and application configurations. For example, internal and external auditors do not differentiate between physical and virtual environments. Also, maintaining critical applications in a virtual environment adds additional pressures for controlling the virtual server infrastructure.

BladeLogic Virtualization Manager enables IT organizations to manage both physical and virtual environments from a unified management platform resulting in greater infrastructure consistency and reduced downtime. Through BladeLogic Virtualization Manager's integrated approach, it is transparent to an end user whether a given server or application service being managed is running on a physical machine or on a virtual instance residing in a virtual container.

Virtualization Challenges	BladeLogic Solution
Configuration changes to the virtual host impacts multiple virtual machines	Manage physical and virtual machine configurations from a single console and data model map dependencies between physical and virtual machines
Virtual machine sprawl over time across virtual hosts	Manage inventory and compliance of virtual machine configurations across servers and locations
Variable resource utilization makes it difficult to optimize the capacity of the virtual hosts	Audit and synchronize virtual machine configurations (memory, cpu, etc.) across one or many physical servers
Configuration portability across physical and virtual environments	Package granular physical and virtual configurations; Easily port packages with parameterization; Undo specific configuration changes
Consistently measure compliance across physical and virtual environments	Closed-Loop compliance approach that works seamlessly across physical and virtual machines; Configuration-level access controls and reporting; Built-in compliance content from CIS, NIST, etc.

Why BladeLogic?

Compelling Economics
- Typical savings of $2M annually
- Average time savings of 97%
- Average payback in 3-6 months

Product Advantage
- Breadth & sophistication of solution
- Deep cross-platform support
- Mature product

High Quality Customer References
- Number & pedigree of customers
- Strategic decisions
- Large implementations

cars.com

"At Cars.com, in Chicago, BladeLogic provided the management capabilities Edward Christensen, director of technical operations, needed for his virtualized server environment. The online automotive company uses VMware to virtualize servers on HP boxes in its development and quality-assurance environments. It needs to have a "fast refresh cycle," Christensen says, and that requires virtualization. It also requires a fast way to make sure systems are configured and operating up to preset policies. For that, Christensen tapped BladeLogic, which he already had been using for server management."

Edward Christensen
Director of Technical Operations

"IMF recently moved away from a dedicated server-to-application model and abstracted the server layer using VMWare Inc.'s ESX virtualization software, which boosted utilization to somewhere between 40% and 60%, said Tom Ferris, senior IT officer at IMF. 'We were looking for a tool that would help us manage that environment with a headcount that's been declining,' Ferris said. 'Our server count was going up, the number of people going down. It's a challenge to manage more with less and maintain the same level of service.' Then one year ago, Ferris started working with BladeLogic Inc. and found the capabilities he was looking for. 'We have a mechanism for tracking changes. We have the capability to remediate. If a configuration change has been made, we can fix it with BladeLogic,' Ferris said."

Tom Ferris
Senior IT Officer

BladeLogic Virtualization Manager

Key areas where BladeLogic Virtualization Manager provides integrated management of virtual and physical server environments are:

- **Integrated CMDB** - Ability to discover, inventory and classify physical and virtual server environments in a single Configuration Management Database (CMDB). Identify servers that are candidates for virtualization. Track migration to virtual environments over time.

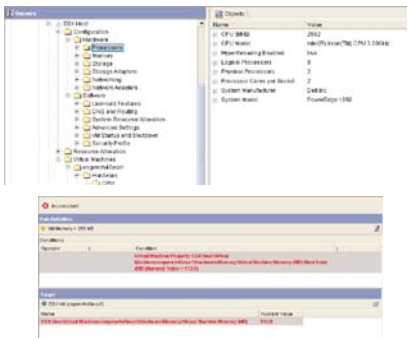
- **Provisioning** - Provision new virtual server infrastructure (virtual containers) in a manner consistent with other bare-metal provisioning strategies in accordance with an IT organization's build policies.

- **Configuration Change Control** - Manage, control, and enforce configuration changes to an IT organization's virtual infrastructure environment.

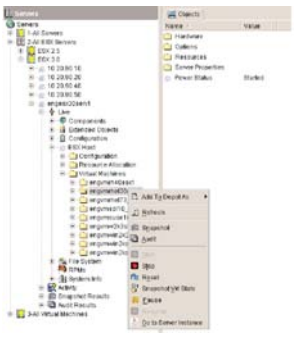
- **Migration across Environments** - Create new release or update packages within virtual and physical environments and promote seamlessly across them.

- **Compliance** - Audit all configuration changes to physical and virtual environments in a consistent manner to ensure compliance with security, operational, and regulatory requirements.

BladeLogic Capabilities	Customer Benefit
Discovery, inventory and classification of servers regardless of environment type	Integrated accountability of servers regardless of environment type
Provisioning – virtual machines against build policies	Standardized provisioning across environments
Configuration Change Control – manage, control and enforce changes across virtual hosts and machines	Control changes in a virtual environment the same way as the physical environment
Cross environment migration – packaging and promotion between/across physical and virtual environments for application release management	Standardized release processes that are transparent to the environments
Compliance – audit and remediate security, configuration and regulatory policies in a virtualized environment	Prove that the virtual environment controls are as robust as the physical environment



Ensure Compliance with Virtual Policies



Snapshot, Audit and Deploy VMWare Configurations

With a larger and more diverse global customer base than any other automation provider, BladeLogic is the acknowledged leader in the data center automation market. Below are just a few of the companies that rely on BladeLogic to automate their data centers:

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